

Consultant Resume



Tommy Rönnholm
Senior Oracle Database Consultant

+ CONTACT

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+ AREA

- System development
- Database administration and operation
- Migration and integration

+ PRESENTATION

Tommy has over 30 years of IT experience in system development, database administration, integration, and operations, with a strong focus on Oracle databases throughout his career. He is a dedicated and tenacious problem solver driven by challenges and responsibility. He does not give up until the client is satisfied and the goal has been achieved.

Tommy is responsible, structured, goal-oriented, positive, committed, independent, driven, proactive, and responsive. Thanks to his broad competence and extensive experience across sectors such as banking, insurance, energy, telecom, pharmaceuticals, and government organizations, Tommy quickly integrates into new business environments.

He is highly accustomed to communicating with various business units—from end-users and support to developers, operations teams, and technical experts.

Tommy has worked with everything from proprietary enterprise systems to Oracle technical solutions down to the operating system level. He possesses comprehensive experience in integrations involving large data volumes where high demands are placed on data quality, availability, and performance.

+ EXPERIENCE AND ASSIGNMENTS

ITACE AB (2021-08 - Present)

Self-Employed/Senior Oracle Consultant.

Vattenfall AB (2021-08 - 2024-12)

Assignment as Senior Oracle DBA for Vattenfall's DBA Group.

- As Senior Oracle DBA, I provided support and technical consultation for over 70 databases, projects and system owners, including managing Remedy incidents (tickets).
- Performed database installations, migrations, and release upgrades to the latest release Oracle 19c from old releases (10g, 11g, and 12c) within and across different data centers.
- Monitored and performance-analyzed databases and SQL queries via Oracle Cloud Control.
 - Generated ADDM, AWR, and ASH reports via Oracle Cloud Control or directly from the database server for analysis and SQL optimization.
- Migrated BMC Patrol bash shell scripts to BMC Helix and developed new Python scripts for alert management to BMC Helix monitoring.
 - Configured scripts and rule sets in Oracle Cloud Control for automatic alert transfer to BMC Helix monitoring.
- Executed copying/cloning of Oracle databases (single- or multi-tenant) within and across different data centers using hot cloning or Data Pump to Exadata X6/X9 (Oracle Linux) or to database servers (Red Hat Linux).
- Installed and configured Oracle Data Guard on Exadata X6/X9, including monitoring setup in Oracle Cloud Control.
- Exported data from Oracle databases via SQL or PL/SQL scripts to non-Oracle data solutions (e.g., in the Azure data center).
- Installed Oracle APEX 20.2 on the Oracle database server.
 - Installed Oracle REST Data Services (ORDS) and Tomcat in the Windows client/server environment.
 - Configured password management via certificates against the LDAP server on the Oracle database server.
- Monitored and administered Exadata X6/X9 RMAN backups via Shell scripts, including status reporting via email.
- Monitored and managed Exadata X9 zFS storage space for RMAN backup operations.
- Performed NetApp snapshot backup in production and snapshot restore, followed by Oracle database recovery to test and development databases.
- Monitored and maintained NetApp snapshot scripts for daily backups and status reporting via email.
- Administered system for scanned PDF documents that were daily loaded into the Oracle database (10 TB), including deletion of older documents in compliance with GDPR requirements.

Databases: Oracle Database (19c, 12c, 11g, 10g).

Tools/Software: APEX 20.2, Apache Tomcat, SQL Developer, SQL*Loader, SQL, PL/SQL, Oracle Data Guard, Oracle Cloud Control (12c, 13c), zFS, NetApp, Python, Shell Scripting.

OS/Platforms: Exadata (X6, X9) with Oracle Linux (7, 8), Red Hat Linux (6, 7, 8), Solaris 11, Windows Server (2003, 2008, 2012, 2019, 2022).

B3 DBAce AB / B3IT Innovation AB (2013-09 - 2021-06)

Full-Time/Developer and Senior Oracle Consultant.

Vattenfall AB (2014-09 – 2021-06)

Assignment as Senior Oracle DBA for Vattenfall's DBA Group.

- Provided support and technical consultation for over 70 databases, projects, and system owners, including managing Remedy incidents.
- Performed database installations, migrations, and version upgrades (to Oracle 19c, 12c) from older versions (10g and 11g) within and across different data centers.
- Monitored and performance-analyzed databases and SQL queries via Oracle Cloud Control.
 - Generated ADDM, AWR, and ASH reports via Oracle Cloud Control or directly from the database server for analysis and SQL optimization.
- Executed copying/cloning of Oracle databases within and across different data centers using hot cloning or Data Pump to Exadata X6 (Oracle Linux) or to database servers (Red Hat Linux).
- Installed and configured Oracle Data Guard on Exadata X6, including monitoring setup in Oracle Cloud Control.
- Installed and administered APEX 5.03, including client configuration for password management via LDAP server.
- Monitored Exadata X6 RMAN and Shell scripts for daily backup operations.
- Performed NetApp snapshot backup in production and snapshot restore, followed by database recovery to test and development databases.
- Monitored and maintained NetApp snapshot scripts for daily backups and status reporting.

Databases: Oracle Database (19c, 12c, 11g, 10g).

Tools/Software: APEX 5.03, Apache Tomcat, SQL Developer, SQL*Loader, SQL, PL/SQL, Oracle Data Guard, Oracle Cloud Control (11g, 12c), zFS, NetApp, Shell Scripting.

OS/Platforms: AIX (6, 7), Exadata X6 with Oracle Linux (6, 7), Red Hat Linux (6, 7), Solaris 10, Windows Server (2003, 2008, 2012, 2019).

If Skadeförsäkring AB (2013-02 – 2014-10)

Assignment as Developer and System Administrator.

- Performed recurring system maintenance during short periods.
 - Extracted campaign data from the marketing database for Microsoft reporting.

Databases: Oracle Database 11g.

Tools/Software: SQL Developer, SQL*Loader, SQL, PL/SQL, Microsoft Visual Studio 2010, VB6 and C#.

OS/Platforms: Windows Server 2008.

Västmanlands Läns Landsting (2014-05 – 2014-08)

Assignment as Architect and Developer.

- Designed and developed a web prototype for demonstration.
 - Created an ERP data model and requirements specification.
 - Developed a Java-based web application (using Appfuse) for managing laboratory medicine data.
 - Handed over the prototype for further development due to a new full-time assignment.

Databases: PostgreSQL.

Tools/Software: AngularJS, AppFuse, Git, Hibernate, JavaEE7, jQuery, Maven, DbSchema, Netbeans, Spring, Twitter Bootstrap.

OS/Platforms: Ubuntu Linux.

Multiple Short-Term Engagements (2013-02 – 2014-08)

Assignment as Senior Oracle DBA for clients including Atlas Antibodies, Carmeda, ICW, Interpress, KI, Härjedalens Kommun, and Skolverket.

- Executed short assignments (approx. 1–3 days or weeks) on-site or remotely.
- New installations and maintenance of databases.
- Relocation and upgrading of databases, including OS migration from 32-bit to 64-bit.
- Configured Oracle RMAN backup via scripting.
- Support in Oracle E-Business Suite 10:
 - Account management.
 - Report generation.
 - Database storage space maintenance.

Databases: Oracle Database 11g.

Tools/Software: SQL Developer, Oracle E-Business Suite 10.

OS/Platforms: CentOS Linux 6.3, Windows Server (2003, 2008).

B3IT Consulting AB (2013-02 – 2013-08)

Full-Time/Developer and Senior Oracle Consultant.

Sobi (2013-06 – 2013-08)

Assignment as Senior Oracle DBA.

- Relocated and upgraded two Oracle databases (11.1.0.7 → 11.2.0.3) during migration to new hardware and OS (SLES10 → SLES11 in VMware).
- Modified file structure and storage location in the source database.
- Data migration using Oracle RMAN to a new file structure for NetApp storage.
- New installation and configuration of Oracle backup using NetApp SnapDrive and Snap Manager for Oracle.
- New installation of Oracle Cloud Control 12c with configuration migration from Oracle Enterprise Manager 11g.

Databases: Oracle Database (11g, 12c).

Tools/Software: Oracle Enterprise Manager 11g, Oracle Cloud Control 12c, NetApp SnapDrive 5.2, NetApp SnapManager 3.3.

OS/Platforms: Windows Server (2003, 2008).

ELCARO AB (2011-04 – 2013-01)

Self-Employed/Senior Oracle Consultant.

If Skadeförsäkring AB (2011-04 – 2012-12)

Assignment as Developer and System Administrator.

- Responsible for system administration and performance optimization of the marketing database (data warehouse for campaign and car statistics).
- Developed and tested PL/SQL code to process incoming data files (loaded via SQL*Loader) and generate outgoing data files for external systems.
- Performed performance improvements and data quality measures by optimizing and testing PL/SQL code.
- Developed new PL/SQL functionality based on customer requirements.
- Analyzed VB6 conversion programs, created system documentation, and developed a replacement program in C#, including testing and production deployment.

Databases: Oracle Database (10g, 11g).

Tools/Software: SQL Developer, SQL*Loader, SQL, PL/SQL, Microsoft Visual Studio 2010, VB6 and C#.

OS/Platforms: Windows Server 2008.

Vattenfall Business Services Nordic (2006-06 – 2011-03)

Full-Time/Senior Oracle DBA and Developer.

- Provided technical consultation and support for over 70 databases across projects and system administration, including Remedy incident management.
- Monitored database storage capacity, availability, and performance.
- Installed and maintained Oracle clients, databases, software, and security patches.
- Managed incidents and retrieved software/patches through continuous contact with Oracle Support.
- Installed and maintained Oracle Enterprise Grid Control (with approx. 50 agents) for centralized monitoring.
- Managed backup, recovery, and cloning using Legato, NetApp Snap Manager/Snap Vault, Oracle RMAN, and Oracle Data Guard.
- Upgraded IFS systems and the Oracle database to 10g.
- Managed SAP upgrades to 10g and performed SQL performance analysis.
- Migrated a web application (for viewing scanned invoices) from older versions (Tomcat/Oracle 9i) to newer versions (Tomcat/Oracle 11g).
- Executed OS migration from Solaris to AIX.
- Developed, tested, maintained, and deployed PL/SQL programs for integration with the core operations monitoring system (Big Brother).

Databases: Oracle Database (7, 8i, 9i, 10g, 11g).

Tools/Software: Apache, Tomcat, SQL Developer, SQL*Loader, SQL, PL/SQL, Oracle Data Guard, Oracle Enterprise Manager (10g, 11g), Perl, TOAD, EMC Legato, NetApp Snapdrive 6.3, NetApp Snap Manager 3.1 for Oracle, Shell Scripting.

OS/Platforms: Solaris 10, IBM AIX 5.3/6.1, Red Hat Linux, Windows Server (2003, 2008).

ELCARO AB (2001-02 – 2006-05)

Self-Employed/Oracle Senior Consultant.

Pfizer AB (2005-03 – 2005-06)

Assignment as Architect, Developer, and Tester.

- Participated in an international migration project (approx. 12 people) to move six Swedish systems to the USA.
- Project began with data mapping activities alongside users and system owners.
- Responsible for migrating two IFS systems and developing a data warehouse for data quality management and control during import.
- Approved data was extracted via ODBC to approx. 20 Excel spreadsheets for transfer to the USA.

Databases: Oracle Database (7, 9i).

Tools/Software: TOAD, SQL*Loader, SQL, PL/SQL, ODBC, Shell Scripting.

OS/Platforms: Solaris 10, Windows NT.

Vattenfall Data AB (2001-02 – 2004-04)

Assignment as Developer and Test Lead.

- Consolidated Kupol's data warehouse (dev, test, and prod servers) into a Sun cluster. Concurrently upgraded the Oracle database from 8i to 9i.
- Planned test schedules executed in a simulated cluster environment before the final production move.

Databases: Oracle Database (8i, 9i).

Tools/Software: TOAD, Oracle Enterprise Manager, SQL, PL/SQL.

OS/Platforms: Solaris 10.

Input Consulting Stockholm (1998 – 2000)

Full-Time/Developer and Senior Oracle Consultant.

Vattenfall Energimarknad AB (1998 – 2000)

Assignment as Developer, Senior Oracle DBA, and Administrator.

- Managed data import and quality control for approx. 2.5 million billing customers to Kupol's data warehouse.
- Roles included Investigator, Developer, Tester, Production Deployment, and Administrator.
- Installed new Oracle databases and patches. Upgraded Oracle databases from 7.3.4 to 8.1.7.
- Led project for implementing the Informatica PowerCenter ETL tool.

Databases: Oracle Database (7, 8i).

Tools/Software: TOAD, Oracle Enterprise Manager, SQL, PL/SQL.

OS/Platforms: Solaris.

Skandinaviska Enskilda Banken (1998-11 – 1999-03)

Assignment as Developer and Mentor.

- Mentor in Microsoft Access for new employees.
- Developed a new VP cancellation system in Microsoft Access (replacing DataEase) for Y2K readiness.
- Performed analysis, requirements specification, object modeling, development, testing, and final delivery.

Databases: Microsoft Access 97, DataEase.

OS/Platforms: Windows (3.1, NT).

Oracle Svenska AB - Consulting (1995-05 - 1998-09)

Full-time employment as a Core Consultant with assignments as Developer and Senior Oracle DBA.

KSU - Nuclear Safety & Training (1998 - 1998)

Assignment as Developer, Administrator, and Oracle DBA.

- Upgraded Oracle Database 7.1 to 8.0.4.
- Migrated Forms and Reports for the ERFNOVA application during the upgrade from Oracle Developer 4.5 to 5.0.

Databases: Oracle Database (7, 8i).

Tools/Software: Oracle Developer (4.5, 5.0), SQL, PL/SQL.

OS/Platforms: Windows NT, Novell Netware.

Telia TeleCom (1997 - 1998-09)

Assignment as Architect, Developer, Oracle DBA, and Mentor.

- International project, D.O.F. (Department Of Future), the wireless office, with approximately 12 participants.
- Developed multi-threaded Java application for SMS message handling between Oracle Office and Telia SMS center via X.25 protocol.
- Users could manage email, SMS, fax, and voice messages via mobile phone or Oracle Office.
- Served as Mentor in C and PL/SQL for new employees.

Databases: Oracle Database 7.

Tools/Software: Oracle Designer, SQL, PL/SQL, Java, C, Pro*C Embedded SQL.

OS/Platforms: Solaris.

Tele-2 (1997 - 1997)

Assignment as Developer.

- Developed Unix applications in Pro*C for exporting alarms and switching data from the Oracle database to various file formats for telephone exchanges (executed twice daily).

Databases: Oracle Database 7.

Tools/Software: X-Motif, SQL, PL/SQL, C, Pro*C Embedded SQL.

OS/Platforms: Unix HP-UX.

Astra APL (1997 - 1997)

Assignment as Developer and Investigator.

- Provided technical support during the pre-tender investigation phase.
- Developed applications for data loading from various systems into a data warehouse.
- Data was retrieved nightly, verified in the database via PL/SQL routines, and non-approved data was flagged for correction.

Databases: Oracle Database 7.

Tools/Software: SQL, SQL*Loader, PL/SQL, Oracle Designer.

OS/Platforms: Windows NT, VMS.

Celsius Tech (1997 - 1997)

Assignment as Investigator and Tester.

- Installed Oracle 7 database and Developer 2000 in AIX with Windows X Motif 1.3.2.
- Investigated and compiled decision support documentation prior to migration to the Oracle environment.

Databases: Oracle Database 7.

Tools/Software: Windows X Motif, SQL, PL/SQL, Oracle Developer 2000, Oracle Forms 4.5.

OS/Platforms: Unix, IBM AIX 4.2.

Stockholm Energi (1996 - 1996)

Assignment as Developer.

- Developed C applications with SQL Pro*C for electricity calculation of volume positions and periodized volumes related to the deregulated electricity market.
- Oracle Forms communicated complex calculation values to the Unix application via Oracle DBMS_PIPE.

Databases: Oracle Database 7.

Tools/Software: C, SQL, PL/SQL, Pro*C Embedded SQL, Oracle Forms 4.5.

OS/Platforms: Unix SCO.

Ericsson Data (1996 - 1996)

Assignment as Developer.

- Data integration between the Oracle database and the LocArc document management system using the Oracle Call Interface (OCI) C library.

Databases: Oracle Database 7.

Tools/Software: C, SQL, PL/SQL, Oracle Call Interface (OCI).

OS/Platforms: Unix, VMS.

KSU - Kärnkraft Säkerhet & Utbildning (1996 - 1996)

Assignment as Developer.

- Developed the ERFNOVA application using Oracle Forms and Reports. ERFNOVA was used for logging safety-related events and actions in nuclear power plants and for experience exchange between plants.

Databases: Oracle Database 7.

Tools/Software: SQL, PL/SQL, Oracle Forms & Report 4.5.

OS/Platforms: Windows 98, NT, Novell Netware.

RSV Dataservice (1995 - 1996)

Assignment as Developer.

- Developed Oracle Forms for manual debiting and a Pro*C routine for processing, calculation, and printing on pre-printed laser forms.
- Produced system documentation.

Databases: Oracle Database 7.

Tools/Software: SQL, PL/SQL, Oracle Forms 3, C, Pro*C Embedded SQL.

OS/Platforms: Unix, OS/2.

Mandat Konsult (1995 - 1998)

Assignment as Mentor in Pro*C Embedded SQL.

- Provided technical support during the development of Pro*C applications in Unix and NT.

Databases: Oracle Database 7.

Tools/Software: SQL, PL/SQL, Microsoft C/C++, Pro*C Embedded SQL.

OS/Platforms: Unix, NT.

IFS (1995-03 - 1995-05)

Short full-time employment as a system developer consultant at Kuwait Petroleum Svenska AB.

Kuwait Petroleum Svenska AB “now OKQ8” (1992-09 - 1995-03)

Full-time employment as System Developer and Administrator.

- Administered and developed the card system for purchase validation, blocking control, discounts, invoicing, and import/export of purchase transactions in various formats.
- Participated in a project (approx. 16 people) for developing a new card system, with the finance department defining requirements.
- Created requirements specifications and an object model using the SVEA methodology.
- Responsible for physical database model implementation, development, and testing.

Databases: Oracle Database 6.

Tools/Software: X-Windows, PL/SQL, C, Pro*C Embedded SQL.

OS/Platforms: Unix, NT.

TCR Data AB (1986 - 1992)

Self-Employed as Developer and Others.

United Knowledge (1986 - 1992)

Assignment as Developer.

- Developed a Windows DLL for date, personal ID number, and organization number validation.
- The DLL was called from various languages such as Visual Basic, C++, and Paradox.

Databases: Oracle Database 6.

Tools/Software: Visual Basic, Borland C++, Paradox.

OS/Platforms: Windows 3.1.

SBS Data AB (1986 - 1992)

Assignment as Developer.

- Developed an accounting system for gas stations with modules for cashier, daily summary, and inventory management.
- Developed a keypunch application on PC to replace the IBM 5280 machine.

Databases: C-Tree Database.

Tools/Software: Borland C/C++, C-Vermont View.

OS/Platforms: DOS.

BranschData AB (1986 - 1992)

Assignment as Developer.

- Developed a control system for Telia's telephone exchanges with multiple operators in a network.
- The system managed personnel data, card numbers linked to phone numbers, opening/closing times, and personal information for the operator.
- Developed an application for generating the internal phone directory for printing.

Databases: C-Tree Database.

Tools/Software: Turbo C, C-Vermont View.

OS/Platforms: DOS.

Voith Nordic AB (1986 - 1992)

Assignment as IT Consultant, Investigation, and Administration.

- Investigated and advised on the procurement of new multi-user computer equipment.
- Recommended a Novell network server setup with multiple clients and the CGS accounting system.
- Held administrative responsibility for the Novell network during a short transition period.

Tools/Software: CGS Accounting System.

OS/Platforms: DOS.

Chafö Data AB (1986 - 1992)

Assignment as developer.

- Developed two data communication programs.
- Between MAI-8000 server and a measuring computer unit SattControll Model-60.
- Between IBM-PC for automatic file transfer via Hayes modem to MAI-3000 server.

Tools/Software: MAI Basic Four, Turbo C, C-Essential Communication.

OS/Platforms: DOS.

Datorisering AB (1986 - 1992)

Assignment as Developer.

- Developed a document system for managing documentation changes (from programmers, system testers, and end-users).
- Developed a menu system that automatically searched company names across all databases and created the initial menu selection page.
- Developed routines in Today 4GL for the CROM5 accounting system, inventory reports, and file copying between companies.

Databases: C-ISAM.

Tools/Software: Today 4GL and C.

OS/Platforms: Unix Crom.

Aktiv Förvaltningstjänst (1986 - 1992)

Assignment as Developer.

- Developed Akelius Skatt (Akelius Tax) for declaration and tax planning on behalf of tax expert Roger Akelius.
- Developed applications for printing on pre-printed tax forms and converting declaration data between different versions of Akelius Skatt.
- Responsible for customer support and correction of reported software defects.

Tools/Software: Borland Turbo Pascal.

OS/Platforms: DOS.

+ CURSES

- 2026 Python Data Structures and Algorithms: Complete Guide
- 2025 Learn Python Programming Masterclass
- 2025 The Complete PL/SQL Bootcamp : Beginner to Advanced PL/SQL
- 2025 The Complete Oracle APEX Fundamentals Course
- 2024 Learn Linux in 5 Days and Level Up Your Career
- 2023 Oracle 12C Release 2 Backup and Recovery Using RMAN
- 2023 Oracle Database: Oracle 12C R2 RAC Administration
- 2021 Oracle SQL Performance Tuning Masterclass
- 2021 Oracle SQL : Mastering Oracle SQL Performance Tuning
- 2016 Agile Foundation Certificate
- 2016 ITIL® Foundation Certificate in IT Service Management
- 2011 Oracle Database 11g Performance Tuning Ed 2
- 2008 Oracle Enterprise Manager 10g Grid Control Ed 2
- 2007 Oracle Application Server 10g R2 Administration I Ed 2
- 2007 Oracle Database 10g Backup and Recovery
- 2005 GMP (Good Manufacturing Practice at Pfizer)
- 2003 Webdesign & html
- 2002 Internet
- 2002 Business Objects
- 2000 Abalon Administration CRM
- 1998 Oracle Web Application Server
- 1998 Oracle Deploying Application on Web
- 1997 Web-Publishing with Java
- 1996 Oracle Designer / 2000 part 1 & 2
- 1996 Oracle Report 2.5
- 1996 Oracle Forms 4.5 part 1 & 2
- 1995 Oracle Database Administration for Oracle 7
- 1995 Oracle SQL*plus v.3
- 1995 Oracle PL/SQL & PL/SQL in databas
- 1995 Oracle 3GL-programming
- 1993 Oracle SQL*Forms 3.0
- 1993 SVEA training (mapping, modeling, construction)
- 1992 Oracle SQL*Plus
- 1992 Relational databases (Construction, tools and methods)

+ EDUCATION

- 1985-1986 Military service Kungsängen I1
- 1979-1981 High school two-year electrical and telecommunications engineering course

+ LANGUAGES

- **Mother tongue:** Swedish - Native
- **Foreign languages:** English - Professional working proficiency

+ IT PROFESSIONAL SKILLS

- **Industries:** Banking, insurance, energy, telecom, pharmaceuticals and government organizations
- **Programming language:** Oracle PL/SQL, C, C++, C#, VB6, VBA, Java, Pascal, Today 4GL, Awk, Perl, Python and Unix/Linux Shell script (bash, csh, ksh, sh).
- **Development tools:** Maven, Git, AppFuse, Oracle SQL Developer, Oracle Pro*Embedded SQL, Oracle Forms & Report, Oracle Designer, Microsoft Visual Studio 2010, Microsoft Access 97 and TOAD.
- **Methodology:** Props, SVEA data modeling and Good Manufacturing Practices (GMP).
- **Operating systems:** Exadata (X6, X9) Oracle Linux, Red Hat Linux, Unix, Solaris, HP-UX, Novell Netware, IBM AIX and Microsoft Windows Server.
- **Databases:** Oracle (6, 7, 8i, 9i, 10g, 11g, 19c), PostgreSQL, MySQL, MariaDB, C-ISAM and C-Tree.
- **Applications:** Oracle APEX, Oracle Enterprise Manager, BMC (Patrol, Helix), EMC Legato, Remedy, Apache, Tomcat and Big Brother.
- **Utilities:** Oracle SQL Loader, Oracle RMAN, Oracle Data Guard, Netapp Snapdrive, NetApp Snap Manager, Delinea Connection Manager, Putty, RDP and Citrix.
- **Interface:** AngularJS, JQuery, Spring, Hibernate, Oracle JDBC, Oracle ODBC, Oracle OCI and X.25 protocols.

+ OTHER SKILLS AND HOBBIES

I appreciate traveling to warm, sunny climates to explore culture and history. I enjoy physical activity through long walks and gym training, but also relaxing with a good book, film or playing computer games.