

Curriculum Vitae



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Education

- M.Sc. in Computer Science, Vrije Universiteit, Amsterdam 2002
- B.Sc. in Mathematical Computer Science, Eötvös University, Budapest 2000
- Computer Technician Certificate 1997
- Bilingual (English-Hungarian) High School Graduation, Trefort Gymnasium, Budapest 1996

Scholarships

- 2 Semesters Erasmus at Uni-GH Paderborn, Germany 1999-2000
- 2 Semesters Master Scholarship of the Vrije Universiteit Amsterdam, Holland 2001-2002

Languages

- **Hungarian:** native
- **German:** fluent in speaking and writing
- **English:** fluent in speaking and writing
- **Dutch:** basics
- **French:** basics

Experience with programming languages

- **Main Focus: Java** (since 1999)
 - J2SE and J2EE
 - **EE Application Servers:** Tomcat, JBoss, WebSphere, WebLogic, GlassFish
 - **Java IDE:** much experience with Eclipse and IntelliJ, some experience with NetBeans
 - **Web GUI Frameworks:** JSP, JSF (RichFaces and PrimeFaces), Google Web Toolkit and Wicket
 - **Testautomation:** Cucumber/Gherkin, Selenium, Selenide, Selenium grid, REST Assured
 - Lambda Expressions
 - Spring Framework, Spring Boot
 - Groovy Scripting, Model-View-Controller approach with Grails
 - Eclipse Plugin Development
 - PDF-Document creation and digital signing with iText
- **Second-best language: Javascript** (seit 1998)
 - Core
 - Experience with jQuery and AngularJS. Some experience with ReactJS.
 - Experience with TypeScript
- **Python** (Scripting and Web2py)
- **Shell Scripting:** Bash/Sh, MSDOS Batch, DCL
- **PHP** (Experience with Core, some experience with Symfony)
- **Perl** (sporadically)
- **C++** (some experience between 2002 and 2004)

Further DEV and OPS skills

- Docker, Jenkins, Continuous Delivery and Continuous Integration
- Cloud Foundry, Spring Boot, Splunk
- JBoss, Weblogic, Tomcat, Glassfish, WebSphere
- ActiveMQ, RabbitMQ, Apache Kafka
- Elastic Search
- SQL, XML, XSD, HTML, CSS
- Version Management: CVS, SVN, GIT
- Build Tools: Ant, Maven, Gradle
- Experienced with SunOS, Solaris and VMS
- Linux Power User
- Bash
- TeX, LaTeX
- Gimp, Inkscape, Povray

Projects

(starting with the latest)

- **Federal Administration of Switzerland (BIT/BAZG) (2023 March – 2023 November)**
 - Roles
 - SDET
 - DEVOPS
 - Project: HVF (distance-related heavy vehicle fee)
 - Technologies:
 - VMware
 - Ubuntu Linux
 - Docker, Spring Boot, Spring Framework, Microservices, Kafka
 - CloudFoundry, Splunk
 - AngularJS, TypeScript
 - Awaitility, Lambda, Streams
 - Selenium, Selenide, Selenium Grid, Cucumber, Gherkin
 - DB: Postgres
- **AXA (2022 September – 2022 December)**
 - Roles
 - Devops Engineering
 - Java Dev
 - Webapp Security
 - Project
 - A-Lex – Webapp for Cases of Legal Protection Insurance
 - Technology
 - Java 11
 - Spring Framework
 - Spring Boot
 - Elastic Search
 - Apache Kafka
 - Flowable Workflow Engine
 - Maven, Git und Jenkins
- **Zürcher Kantonalbank (October 2019 – June 2022)**
 - Roles
 - Devops Engineering
 - Java Dev (Version 11)
 - AngularJS Dev (Version 13)
 - Projects
 - Introducing the QR-Invoice
 - Open Banking / Integrating Third Party Banks

- eBill
 - Introducing ISO 20022 in Payment Transactions
 - Removing red and orange pay-in slips
- Languages: Java 11, JavaScript, TypeScript, AngularJS
- Methods: SCRUM and Scaled Agile Framework, aka SAFe
- Application Servers: Jboss, Tomcat and Node.js
- Backend: Hibernate, Elastic Search, REST/SOAP
- Version Control: Git/Gitlab
- CI: Jenkins, Selenium
- **Swiss HTTP GmbH, Zurich (January 2019 – September 2019)**
 - Roles
 - Software architect, software developer
 - Projekt
 - Dataroommate – A highly secure data room solution with audit-proof and comprehensible data access for all kinds of persons entrusted with confidential information.
 - Time: January 2019 – September 2019
 - Tasks: Architecture and Development
 - Language: JavaScript / TypeScript
 - Method: Scrum
 - Frontend: ReactJS
 - Backend: Node.js, MongoDB, Docker
 - Version Management: Git
- **Stadler Rail, Bussnang (March 2018 – November 2018)**
 - Role
 - Software developer
 - Project
 - Rail Data Services – Web application for train fleet tracking. Today's rail vehicles continuously measure and deliver sensor data. The goal of this enterprise application is to make the sensor data accessible to operating railway companies in a manageable way.
 - Language: Java 10
 - Frontend: JSF (Mojarra), PrimeFaces 6.1
 - Backend: Spring Framework, MyBatis 3
 - Database: PostgreSQL 10, SQLite 1.9.7
 - Application Server: Tomcat 8.5, Spring Boot
 - Environment/Tools: Eclipse, Cygwin, Maven, Redmine, Bugzilla
 - Version Management: Subversion
 - Release management: Jenkins
- **Swiss HTTP GmbH, Zurich (January 2015 – January 2018)**
 - Roles
 - Founder, Project Manager, Software Developer, Software Architect
 - Smart ICT – Development of an internal online issue tracking system for Swisscom. Swisscom offers cloud services for SMEs. This web application was developed for the issues of these business customers.
 - Client: Swisscom AG
 - Time: October 2017 – January 2018
 - Role: Development
 - Language: Perl 5
 - PostgreSQL 9.2
 - Server: Apache HTTP Server with mod_perl
 - Version Management: GIT
 - Responsive Frontend for OIZ – Conversion of the web applications of the city of Zurich from various frontend technologies to uniform frontends in JSF / PrimeFaces.
 - Client: OIZ (Organisation und Informatik Zürich)
 - Time: October 2016 – Juni 2017
 - Role: Development

- Language: Java 8
 - Frontend: JSF (PrimeFaces)
 - Application Server: Oracle WebLogic Server 12c R2
 - Version Management: GIT
- Inquisiv – The Client, Sientia AG, decided to develop an online accounting solution for SMEs. Swiss HTTP GmbH supported them in this project with software development.
 - Client: Sientia AG
 - Time: April 2016 – September 2016
 - Role: Software Development, Code Analysis, Benchmarking
 - Language: Java 8 and Python 3
 - Frontend: ReactJS 15.1.0, Kendo UI
 - DB: MySQL 5.7.13
 - Application Server: Apache TomEE 1.7.4
 - Interfaces: IMAP-, CalDav- and CardDav-Interfacing in Java
 - Version Management: GIT
- Partner Services – Swiss Life AG offers investment opportunities for the third pillar of the rental insurance system. This SOA architecture is comprehensive for the data deliveries for diverse applications for various user groups from back office over field service to customers.
 - Role: Consolidation and Design of the SOA Landscape
 - Client: Swiss Life AG
 - Time: October 2015 – March 2016
 - Application Server: IBM WebSphere
 - Database: Oracle Database 12c
 - Environment/Tools: Jira, Redmine, Eclipse, IntelliJ, Wireshark, Maven, Sonar
- WeAct App
 - Client: WeAct AG
 - Role: Project Lead
 - Time: March 2015 – September 2015
 - Mobile Apps for Android and iOS
 - Version Management: GIT
- **DV Bern AG, Bern (2012 - 2014)**
 - Frontend: JSF (Richfaces), SWT and ULC (RIA Framework by Canoo)
 - Backend: Web Services, EJB, JPA, JTA, JMS and Document Creation with miscellaneous API's into miscellaneous Formats such as PDF and ODT
 - Datenbanken: MS SQL Server sowie DB/2
 - Application Server: JBoss
 - Environment/Tools: Enterprise Architect, Jira, Eclipse, IntelliJ, Maven
 - Method: SCRUM, Hermes, Kanban
 - Version Management: GIT and SVN
 - Releasemanagement: Bamboo, Jenkins, Hudson
 - Quality Assurance/Testing: Sonar, JUnit, Mockito
 - Special Interfaces and Data Exchange protocols: SEDEX (SEcure Data EXchange via BFS), GERES (e-Gov Cantone Bern)
 - Project TaxMe Online (Client: Tax Office of Cantone Bern) – Architecture and Implementation
 - Project MEVOK (Client: ASV Bern, Office for Social Insurance) – Architecture and Implementation
- **DiSo Solution AG, Gümligen (2009 - 2011)**
 - Migration and Development of the Java-Enterprise-Application (TaBi) of the Federal Customs Administration. Migrating the Application to new JDK, new WebLogic Server and new DB. Frontend: RCP. Backend: Spring Remote, EJB, JPA. DB: Oracle 11g. Application Server: Oracle WebLogic Server 10.3.
 - Design and Development of a SOA-Application for the Provincial Administration of Liechtenstein for the processing of VAT-Declarations. Oracle SOA Suite was deployed as a SOA-Framework. DB: Oracle 11g
 - Development of Reports with BIRT. Interfacing BIRT-Reports in Java-Enterprise-

- Applications. DB: Oracle
- Development of Web Applications for registered Users of the swissmip.ch Domain. Frontend: JSP. Backend: EJB, JPA. DB: Oracle 10g
- Development of the Web Application Lima for Managing Oracle Licenses. Frontend: Grails. ORM: Hibernate. Server: Tomcat and WLS. DB: Oracle.
- **Glue Software Engineering AG, Bern (2008 - 2009)**
 - Development of miscellaneous Java Enterprise-Applications with different Email- and SMS-sending features and features for digitally signing and encrypting documents. Frontend: Apache Wicket. Backend: EJB, JPA, iText. DB: MySQL. Application Server: Glassfish.
 - Work in the Development of different Desktop- and Webapplications for signing PDF Documents. Frontend: SWT and Swing for Desktop, Apache Wicket for the Web. DB: Oracle and MySQL. Application Server: Glassfish and BEA WebLogic Server.
 - Developing an SMS-Service-Platform and several web based applications for monitoring and managing services. Creation of configurable Servlet-Features by using Groovy-Scripting. The monitoring of the services was based on interfacing the backend with Nagios. Frontend: Google Web Toolkit. Application Server: Apache Tomcat. DB: MySQL.
- **Freelancing in Budapest (2005 – 2008) with the following clients:**
 - **IBM**
 - Project: Eclipse Plugin Development (Ecute), Enterprise Application (Cluster Management)
 - Task: Concept, Architecture and Development
 - Client: Eli Lilly and Company
 - Tech: APIs: JSP, JSF, JDBC, EJB, JMS, XML
 - **Fornax AG**
 - Project: Enterprise Applications für Stock Exchange Transaction Settlement
 - Task: Consulting, Requirement Analysis, Architecture and Development
 - Client: Keler Group (www.keler.hu)
 - Tech: Websphere, J2EE (APIs: JSF, JMS, JDBC, XML), .Net (ASP, VB), Oracle DB, MS SQL Server.
 - **Telenor**
 - Project: Introducing the AmDocs Billing Systems
 - Task: Onsite Support, Consulting and Development
 - Client: Telenor ASA
 - Tech: Java (APIs: Swing, JDBC, XML), Perl (FTP API) , Oracle DB (PL/SQL), HP Unix (ksh scripting).
 - **AmDocs**
 - Project: Introducing the AmDocs Billing Systems
 - Task: Onsite Support, Consulting and Development
 - Client: Vodafone Group plc
 - Tech: C++, Java (APIs: Swing, JDBC), Oracle DB (PL/SQL), SunOS (ksh scripting)
- **German Cancer Research Center, Heidelberg (2003 - 2005)**
 - Supervision of diploma students in their theses in medical signal and image processing.
 - Development of a software system for processing medical images and medical signals for radiation therapy. Technologies used include: C++ (Qt API), J2SE (APIs: AWT, Swing, IO, Net, Math, XML), Perl (diverse APIs) and Matlab.