Curriculum Vitae

Personal Information

Name:	Martin Janda
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Professional Experience

Since 01.10.2025	*Freelance IT Architect / Software Engineer (Public Sector)*
	• Architecture design and modernization of a central process-driven application in the public sector • Analysis and redesign of a distributed microservice architecture to replace legacy monolithic systems • Definition of interfaces (REST / SOAP) and integration concepts between legacy and new systems • Design of BPMN-based workflows using Camunda to model approval-driven business processes • Technical responsibility for the backend based on Java 21 / Spring Boot 3, MongoDB integration, and implementation of secure REST APIs • Support for frontend modernization (from JSF to Angular) • Cloud-oriented architecture with Docker-based deployments and CI/CD pipelines (Maven, Jenkins, GitLab CI) • Architecture and implementation of an AI proof of concept (RAG) using Ollama, Spring AI, and PostgreSQL Vector Database **Technology Stack:** Java 21, Spring Boot 3, Camunda 8, MongoDB, Angular, Docker, REST / SOAP, Wildfly (legacy), Ollama (LLMs), PostgreSQL + pgvector (Vector DB), CI/CD with Maven and GitLab CI

01.04.2020 – 30.04.2025	*Managing Technical Consultant at NTT DATA Deutschland SE* • Development of a blockchain prototype for DZ Bank (trigger solution for SEPA payments via Ethereum Smart Contracts) • Architecture and development of scalable cloud and microservice solutions (AWS and Azure Kubernetes and AWS Lambda) • Technical leadership of intercultural development teams (nearshore/offshore) • Java / Spring Boot 3 / JPA / Hibernate 6: Backend development • Full-stack development for 1&1 AG's CRM using JavaFX / Swing and Spring Framework • Implementation of Spring Security with OAuth2/OpenID Connect integration (Keycloak, Okta) for secure authentication and authorization flows • Expert in regulatory topics (PSD2, GDPR, Open API Banking) in the financial sector • Containerization with Docker (Docker Compose, Multi-Stage Builds) and Kubernetes deployments, CI/CD pipelines with Jenkins for automated build and deployment processes • Project documentation and agile working with JIRA/Confluence, technical documentation and knowledge sharing
01.11.2017 – 31.03.2020	*Senior Project Engineer at Commerzbank AG* • Java / Spring Framework: Development of payment systems in core banking with Oracle databases (11g/12c) • Test-driven development (TDD) with JUnit 5, Mockito and Cucumber for unit and integration tests • Full-stack development and operation of complex Java-based web applications (including Angular JS / Angular 7), build management with TeamCity and Bamboo • Implementation of regulatory requirements (EU-GDPR, PSD2) • REST services & microservices for banking applicationsFocus areas: Java backend, REST services, microservices, JavaScript frontends
2010 - 2017	*IT Architect at GFT Technologies SE* • Development and optimization of systems for automatic data extraction from complex forms • Programming and maintenance of interfaces for integrating extracted data into downstream systems • Interface between business departments and development service providers at a major bank • Full-stack development in Java (Spring Framework, Apache Wicket). Build management with Maven and Jenkins for automated builds. Creation of automated tests in Python and Robot Framework

	• Migration from Solaris 10 to Solaris 11.3 for Deutsche Post AG's parcel box backend
1993 – 2010	*IT-Consultant at Fogelberg & Partner GmbH* • Development of integration solutions with IBM Mainframe and Java Application Server NetPhantom • Modernization of old 3270 interfaces to modern Java Swing clients • Customer training, support and pre-sales presentations • Adaptation of LINUX/390 kernel (mainframe) in collaboration with IBM Böblingen to optimize multithreading in Java

Vocational Training

01.09.1989 – 30.08.1991	*State-certified Information Technology Assistant*
01.09.1991 – 31.12.1991	*Industrial IT Specialist Training (AEG)*

School Education

01.09.1987 – 30.06.1989	*Technical High School at Johann-Philipp-Reis School*

Further Education

Distance learning program in Business Administration at AKAD University
Degree: Diploma in Business Administration
Thesis: "**Decentralized Finance and the Future of the Financial Sector: Analyzing Potential Impacts on Traditional Finance**"

Certifications

• Sun Certified Java Programmer
• Microsoft Certified Programmer C#
• Project Management PRINCE2 (Foundation and Practicioner)
• Certified Professional for Software Architecture – Foundation Level (CPSA-F®)
• Oracle OCA in Database Administration (Oracle 11g)
• Certified Ethical Hacker CEHV8 (EC-Council)
• Certified Bitcoin Professional (CBP)
• Certified Blockchain Security Professional (BTA)
• Microsoft Certified Azure Fundamentals (AZ-900)
• AWS Certified Cloud Practitioner (CLF-C02)
• Certified Kubernetes Application Developer (CKAD)
• ISTQB® Certified Tester – Foundation Level (CTFL)

Key Skills

• Backend development with Spring Framework / Spring Boot in Java including JPA and Hibernate 6
• Frontend development with JavaFX / Swing and various JavaScript and TypeScript frameworks (Angular JS and Angular)
• REST microservices and SOAP web services
• Databases: Oracle (11g, 12c, 19c with SQL*Plus, Oracle SQL Developer), PostgreSQL, MySQL, DynamoDB (NoSQL)
• Security & Authentication: Spring Security, OAuth2/OpenID Connect, Keycloak, Okta, JWT token-based authentication, SAML 2.0
• Blockchain development with Truffle Framework

- Containers: Docker/Docker Compose for local development, Kubernetes for production, Helm charts, container registry management
- Cloud-native architectures: Kubernetes orchestration (AWS EKS, Azure AKS), serverless (AWS Lambda), auto-scaling, multi-cloud deployments
- XML stack: XML, XSD, XPath, XSLT, DOM/SAX parsers, schema validations
- Extensive experience with Git, Maven, Jenkins (CI/CD pipelines, automated builds and deployments), Jira, Confluence
- Development tools: IntelliJ IDEA, Eclipse, Visual Studio Code, PuTTY for SSH connections and SSH key management, Postman / Newman for API testing
- Agile methodologies: Scrum, Kanban, SAFe

Publications
- An Introduction to Cryptocurrencies Using Bitcoin as an Example
- Asynchronous Programming in C# with .NET 4.51
- A C# Library for Complex Number Computation
- A Report on Mobile Payments in Germany (Status 2013)
- Contributor as Blockchain Expert for BitNewsToday

Availability
Available from April 2026

Further Activities
- **Guest Lecturer at the Technical University of Deggendorf** (*Blockchain Security*)
- 3rd Place at NEO Hackathon Berlin (Oct 27-28, 2018) with the NEOCredit project **([Pitch video](#))**
- **Successfully participated in a four-day GenAI hackathon by developing a Retrieval-Augmented Generation (RAG) application**
- Deputy Department Head at TGS Vorwärts Frankfurt e.V. (1,700 members)
- Moderator of two large Facebook communities:

  1. Bitcoin Deutschland (27,000 members)
  2. ICO – Initial Coin Offerings (20,000 members)