

Robert Richter

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SUMMARY

Developer with 18 years of hands-on coding experience, blending deep professional expertise with a strong foundation in personal technical projects. Specializing in modern, scalable web applications and cross-domain process optimization. Known for solving complex problems, driving cloud-native architecture, and leading with curiosity, clarity, and precision in fast-paced environments. Native German speaker, fluent in English (C1).

TECH SKILLS

Node.js, Python, Go
TypeScript, Vue.js
JavaScript, HTML, CSS
SQL and NoSQL databases
Git, Docker, K8s, Serverless
REST, WebSocket, RPC(s)
Amazon Web Services (AWS)

IDEAL POSITION

- Long-term commitment
- Hybrid work setup — a mix of remote work and in-office collaboration
- Flexible working hours, with respect for team coordination and scheduled commitments
- Supportive and collaborative work environment with open communication
- Opportunities for professional growth and skill advancement
- An environment that encourages initiative and passion, allowing me to apply my energy and curiosity toward meaningful contributions

EDUCATION

MSc Computer Science with Artificial Intelligence
Part-time & currently pursuing
Abertay University, Scotland

FUN FACTS

Hobbies: Dancing Kizomba, Social deduction games, Skiing, Meetups

LATEST WORK EXPERIENCE

SENIOR FULL STACK / DEVOPS / CLOUD ENGINEER

APRIL 2023 - PRESENT

InnoTix AG | Zurich, CH | See the [interim report \(PDF\)](#) for more details

- Developing progressive web applications focused on delivering responsive and high-performance user experiences.
- Lead the technical writing of our internal coding guidelines to enhance code quality and streamline collaboration by providing a consistent framework for the development process.
- Lead new deployment processes for Node services on AWS, facilitating cloud migration, and enhancing scalability.
- Mentoring junior and mid-level engineers to foster their professional growth, improve their technical skills, and promote a collaborative and supportive team environment.
- Optimized Node.js services for improved performance and scalability, and introduced deployment systems with monitoring, debugging, stress testing, and load balancing.
- Accommodated client requests by collaborating within a development team to implement new features, enabling shared benefits across the client community.
- Designed and implemented new CI/CD pipelines to enable seamless deployment across in-house, cloud, and on-premise environments, enhancing release cycle efficiency.
- Conceptualized and refactored a time-planning automation product utilizing an evolutionary optimization algorithm with a fitness function tailored to user scheduling preferences. Designed and implemented an event-driven architecture that improved scalability and overall system performance.
- Designed and implemented a data anonymization tool to generate masked replicas, ensuring compliance with data privacy regulations for secure dataset distribution. Enabled end-to-end integration with backend services and frontend delivery, including real-time status updates and selective table exports.

Vue.js • Vuetify • Quasar • Nuxt • Node.js • TypeScript • GraphQL • REST • SQL • MongoDB • Go • Bash • Terraform • Docker • ColdFusion • LLRT • AWS • Jenkins

SENIOR FULL STACK DEVELOPER

MARCH 2022 - AUGUST 2022

autoSense AG | Zurich, CH | See the [reference letter \(PDF\)](#) for more details

- Developed a data quality analysis model to predict malfunctioning telematic devices, significantly reducing the business-to-customer churn rate.
- Refactored a Data Warehouse service, adding new features to enhance prediction and visualization capabilities, aimed at consolidating company data in a single location.
- Engineered a Stack Management service to facilitate the onboarding of new customers and to provide comprehensive telematics statistics for shareholders.
- Constructed and maintained components in a Vue.js application, streamlining processes for the operations department.
- Designed and maintained serverless backend services within a microservice architecture to enable cross-cloud communication and expand functional scope.
- Actively participated in peer-reviewing feature-based pull requests, contributing to overall improvement in code quality.

TypeScript • Node.js • Go • Python • Express.js • Vue.js • Vuetify • MariaDB • Serverless • Docker • Flutter • Dart • AWS products

SOFTWARE DEVELOPER

JUNE 2020 - DECEMBER 2021

Bär Bahnsicherung AG | Olten, CH | See the [reference letter \(PDF\)](#) for more details

- Managed server product, aiding client system diagnostics. Initiated automated server setup, maintenance, and deployment processes. Developed proprietary software, eliminating the need for outsourcing.
- Constructed a web application to manipulate preprocessor macros, generating topology-specific scripts for testing safety-critical PLC software.
- Partnered with a team of developers to build an application designed specifically for testing safety-critical PLC software.
- Engineered a solution to analyze network traffic, aiding in the diagnosis of issues related to the cycle time of redundant CPU cards in a PLC system.

Python • Go • Node.js • C • Bash • REST • OPC UA • PostgreSQL • MSSQL • NixOS • React