Sascha Rose - Software Engineer

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What I Bring to the Table

I am a generalist — IT expert and full-stack developer with 20+ years of experience in software development, architecture, and IT operations. I specialize in modern web, app, server and cloud technologies — designing scalable, robust, and maintainable systems.

I'm experienced in quality assurance for long-term projects — covering unit, integration and end-to-end testing. I also focus on security-related aspects and their seamless automation and integration into daily development and CI/CD pipelines.

With a strong focus on continuous learning and innovation, I stay up-to-date with current tech trends and best practices.

My experience working with interdisciplinary teams allows me to communicate technical decisions effectively and lead implementations with confidence. I combine excellent analytical and decision-making skills with strong self-organisation and a solution-oriented mindset.

Languages

German (native), English (fluent)

What I'm Looking For

Seeking opportunities in web, app, and backend development either independently or together with trusted colleagues from actyvyst. Also open to permanent roles or full-time employment.

My Core Stack

React | React Native
HTML | CSS
Tailwind CSS | TypeScript
JavaScript | Python
Node.js (Express) | PostgreSQL
MongoDB | Git/GitHub
Jenkins | AWS
Docker | Kubernetes

Where I Gained Experience

Software Engineer
2024-2025

QiV - Qualität im Verkehr

actyvyst GmbH

Mobile app for Android to record and transmit traffic countings. Traffic counters can use this app to record configurable interviews and count data. The data is recorded offline and then transmitted to the central server, where it is consolidated and validated in an evaluation system.

Technologies: React, React Native, Node.js (Express), TypeScript, Excel: [Power Query, AddIn (VB Script), TaskPane (React)], .Net (C#), PostgreSQL, GitHub Actions, Clerk, Render.
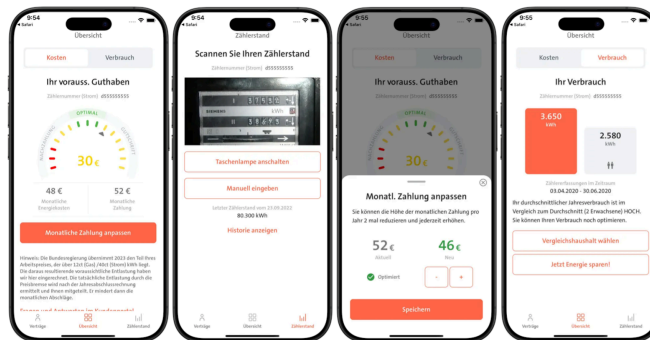
Software Engineer
2022-2025

badenova AG & Co. KG

actyvyst GmbH

The app enables meter reading (including camera integration), provides consumption forecasts, and supports monthly payment optimization. I developed the backend systems, integrated APIs, and set up the entire infrastructure.

Technologies: React, React Native, Node.js (NestJS, Express), TypeScript, Python (FastAPI), PostgreSQL, GitHub Actions, OAuth 2.0 (PKCE), AWS, Kyma (SAP), Kubernetes.

Lecturer
2023-2025

Taktsoft Campus Talents

actyvyst GmbH

I worked part-time as a lecturer, helping career changers enter the field of software development. I also created and updated parts of the curriculum.

Technologies: JavaScript, web development with React, app development with React Native (iOS, Android), API development with Node.js and Express, MongoDB, PostgreSQL.

Software Engineer
2024

Awareness Kitchen

actyvyst GmbH

Development of the "Escape Box" iPad app, an interactive game master for an escape room experience. Designed as a playful tool for security awareness training, the app coordinates the game as a timekeeper and offers hints using multimedia and animations to guide players through the challenges.

Technologies: React Native, Expo, Gesture Handling, Animations, Videos, TypeScript.

Software Engineer
2022

actyvyst GmbH

I joined actyvyst GmbH as a shareholder and software engineer.

Software Engineer
2022

Freelancer

Freelance software projects under the umbrella of actyvyst GmbH. Development of a system for booking leisure activities in tourist regions. The multilingual and multi-client system includes apps for Android and iOS as well as a web app for customers, a web interface for managing offers, vacancies & prices, and a white-label functionality for providers.

Technologies: React, React Native, Node.js (Express), PostgreSQL, AWS, AWS CDK.

Software Engineer
2019-2021

As a Senior Developer, I led software development in the field of internet booking engines for travel portals. My tasks included

Senior Developer at Amadeus
Leisure IT GmbH, Aachen

frontend and microservice development, as well as major contributions to infrastructure setup. I introduced trunk-based development, automated deployments, implemented CI/CD pipelines, standardized test automation (unit, E2E, and integration tests), and established quality and security gates to ensure software quality and security.

Technologies: Angular, TypeScript, Node.js (NestJS, Express), OpenAPI, ORM, MongoDB, Redis, Keycloak, Kubernetes, Kustomize, NGINX, Prometheus, ELK, Jenkins, Docker, Artifactory, Confluence, Jira, Jest, Cypress, SonarQube, Fortify, BlackDuck, OWASP ZAP.

Head of Software Development
2010-2019

Amadeus Leisure IT GmbH, Bonn

In this role, I managed up to 20 employees in software development at the Bonn location. I was also an IHK-certified trainer for IT specialists in application development. I led the transformation of the company into an agile organization and oversaw the migration of software solutions into the Amadeus Group. A key responsibility was leading travel agency solutions for the DACH market. From 2010 to 2014, I was also instrumental in developing and rolling out the "Trusted Reviews" platform internationally, providing verified hotel reviews from real travelers.

Team Lead in Software Development
2000-2010

pixell daten & design GmbH, Bonn

In my first position, I was part of a start-up specializing in digitalizing marketing processes in the travel industry. We developed the live pricing solution "pixell Travel Suite" which was licensed by major companies such as Expedia, TUI, HRS, REWE, and RCCL. We also developed the first mobile app in Germany for booking package holidays, used by Expedia, TUI, and Kuoni. Our work was recognized with the Travel Technology Innovation Award and the Travel Industry Club Award.

Student
1995-2000

University of Bonn

Studied Diplom-Informatik (Computer Science)