



Manuel Henke

Software Developer

Full-stack developer with expertise in AWS, application architecture design, DevOps and team management. Specialized in building web applications with React and Node.js that are written in TypeScript and deployed to Docker or Kubernetes environments using CI/CD pipelines.

Email

manuel.henke@yahoo.de

LinkedIn

linkedin.com/in/manuel-henke

GitHub

github.com/manuelhenke

Website

henkebyte.com

Work Experience

GT-ARC (TU Berlin) Jul 2023 – Oct 2024

Team Lead: Platform & Applications

Oct 2023 – Oct 2024

I was **leading a small team** of developers to build a data platform as distributed system for our automated vehicles and road infrastructure using **Kafka**, **Postgres** and **Python**. While participating in application development, I was the Tech Lead, Product Owner and responsible for the deployment to **Kubernetes/Docker** environments via **GitLab pipelines** that I introduced.

Researcher & Software Developer

Jul 2023 – Oct 2024

My research focused on Cooperative, Connected and Automated Mobility (CCAM) alongside the BeIntelli project. I was responsible for developing web applications to make automated driving tangible. These applications were built using **TypeScript**, **React**, **Mapbox**, **MUI**, **Express.js**, **Socket.IO**, and **Prisma**.

OEV Online Dienste Dec 2019 – May 2023

Fullstack-Developer (Working Student)

During my employment, I have been part of various **SCRUM**-based teams building:

- WordPress web application (**PHP**) with serverless backend functionality written in **Java**
- Alexa Skill with serverless backend services (**JS**)
- Multi-tenant Web Components library (**TS**)
- Corporate web application using **TypeScript**, **React**, **Fastify**, **MongoDB**, **Keycloak**, **Kubernetes/Helm**

In these projects, **Jira** and **Confluence** were used for documentation and issue tracking. Most of the applications are deployed to the **AWS** cloud using **GitHub Actions** or **AWS CodePipeline**. My role has been that of an all-rounder, working on application architecture, front-end and back-end development, database schema and CI/CD pipelines.

VKB Jun 2018 – Nov 2019

Software Developer (Working Student)

I was part of a small team that developed a **WordPress**-based web shop application for internal use. It was built with **PHP**, including a WordPress theme and several WordPress plugins. The application was powered with microservices written in **Java**. The frontend leveraged libraries like **Bootstrap** and **jQuery**.

Education

Technical University of Berlin 2016 – 2023

M.Sc. – Information Systems Management (1.3)

2020 – 2023

Thesis: "Implementation of a use case mapper for CCAM based mobility solutions in the platform economy framework" (1.0)

B.Sc. – Information Systems Management (1.9)

2016 – 2020

Thesis: "Design and development of a cloud-based solution approach for automated home accessibility assessment as an iOS app" (1.0)

Languages

German

Native

English

Proficient

Skills

JavaScript/TypeScript

●●●●●

React

●●●●●

HTML, CSS

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Vue.js

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Docker

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Java

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Swift

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Kubernetes

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SQL

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Python

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PHP

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Interests

Cycling, Open-Source Development, Traveling