



# Michael Heide

**AI - Context Engineer  
Software-Developer**

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## About Me

Michael Heide is a Senior Full-Stack Developer with over 8 years of experience specializing in React and Next.js. He is recognized for building high-performance applications on resource-constrained devices, including SmartTV and Set-Top-Box platforms for major media companies like RTL.

As a certified software architect (iSAQB CPSA-FL) and experienced Team Lead, he combines technical depth with leadership skills, guiding cross-functional Scrum teams in delivering scalable, accessible frontend solutions. Michael has also taught React and modern web engineering as a lecturer at Hochschule RheinMain, reflecting his commitment to knowledge sharing and technical excellence.

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## Professional Experience

### Diddi Smart GmbH / AI Context Engineer | Software Developer

January 2025 – present, Wiesbaden

Sole developer responsible for building a comprehensive food tracking platform focused on diabetes management. Owned the entire product lifecycle – from initial planning and software architecture through implementation, testing, and deployment. Leveraged AI-assisted development tools to ensure code quality, maintainability, and accelerated delivery.

#### Responsibilities:

- Delivered a complete cross-platform solution as a single developer, covering web dashboard, mobile apps, and backend infrastructure
- Reduced development time through strategic use of Agentic AI coding assistants [Claude Code]
- Designed a scalable architecture supporting real-time nutritional tracking and diabetes-specific analytics
- Architecting and building a responsive Next.js Admin dashboard for web users
- Developing cross-platform mobile applications for iOS and Android using React Native (Expo)
- Designing and implementing RESTful APIs with Java Spring Boot
- Setting up and optimizing MongoDB database with Atlas Search integration
- Managing full CI/CD pipeline and cloud deployment
- Establishing AI-augmented development workflows for consistent code quality

## Technologies:

React, TypeScript, React Native, Vite, NextJS, Jest, Vitest, Playwright, Spring Boot Java, JPA/Hibernate, Docker, Git, Shell Scripts, Tailwind, Shadcn, OpenAPI, MongoDB, Atlas Search

## Tools:

Jira, Confluence

## RTL Tech / Frontend - Developer

March 2025 – present, Cologne

Development and optimization of the RTL+ streaming application for SmartTV and Set-Top-Box platforms using React. Focused on ensuring quality, stability, and performance across a diverse range of low-powered devices. Working closely with cross-functional teams and QA to continuously improve user experience and application reliability. Analyzing existing architecture, identifying bottlenecks, and implementing targeted performance optimizations.

## Responsibilities:

- Building performant React (Next.js) applications optimized for resource-constrained devices
- Scaling and adapting the application across multiple platforms
- Collaborating with UI/UX designers via Figma to ensure design-to-code consistency
- Implementing comprehensive testing strategies (Unit, Integration, E2E with Playwright)
- Ensuring WCAG 2.2 compliance and ARIA accessibility standards
- Integrated Didomi consent management platform, enabling GDPR-compliant ad monetization across all streaming platforms

## Technologies:

React, TypeScript, JavaScript, NextJS (SSR / SSG), SPA, Zustand, TailwindCSS, GraphQL Federation, Styled Components, Vite, Tanstack React Query, Tanstack Router, Jest, Vitest, React Testing Library, Playwright, JSON, HTML, CSS, Webpack, SWC, Storybook, AWS, GraphQL, RESTful APIs (REST), SOAP, XML, JSON, Shell Scripts, Docker, GitLab CI/CD, Bugsnag, NX, TurboRepo, Renovate, TDD, ARIA Accessibility

## Tools / Agile:

Jira, Confluence, Opsgene, Scrum, SAFe,

## AOE GmbH / Software - Developer | Architect & Team-Lead

October 2022 – January 2025, Wiesbaden

As Software Developer and Team Lead, led a cross-functional Scrum team of 8 developers in delivering high-performance web applications since October 2023. Focused on building performant React-based solutions, designing scalable architectures, and optimizing development processes. Drove continuous product improvement through close client collaboration and stakeholder management.

## Responsibilities:

- Led a team of 8 developers, taking full technical responsibility for architecture decisions
- Pitched and acquired new client projects, contributing to business development efforts
- Built a reusable component library, reducing development time for new features
- Designed and implemented white-label platform architecture serving multiple client brands
- Achieved iSAQB certification (CPSA-FL) and applied architectural principles across projects
- Developing performant React applications optimized for low-end devices
- Designing and implementing responsive frontend solutions with React and Next.js
- Collaborating closely with UI/UX designers via Figma
- Implementing comprehensive testing strategies (Unit, Integration, E2E)
- Ensuring WCAG 2.2 and WAI-ARIA accessibility compliance

## Technologies:

React, TypeScript, JavaScript, NextJS (SSR / SSG), Spring Boot Java, SPA, Jotai, Recoil, Redux, TailwindCSS, Bootstrap, Apollo Gateway API, PandaCSS, Styled Components, Vite, Tanstack React Query, Tanstack Router, Jest, Vitest, React Testing Library, Playwright, JSON, HTML, CSS, Webpack, SWC, Storybook, AWS, GraphQL, RESTful APIs (REST), SOAP, XML, JSON, Shell Scripts, Docker, GitLab CI/CD, NX, TurboRepo, Renovate, TDD, ARIA Accessibility

## Tools / Agile:

Jira, Confluence, SAFe, Scrum, Kanban

## Hochschule Rhein Main / External Lecturer - Web-Engineering

October 2023 – October 2024, Wiesbaden

As a university lecturer, designed and delivered a comprehensive course series in Web Engineering. The curriculum covered the full web development ecosystem – from fundamental concepts to advanced development practices – preparing students for real-world frontend development.

## Topics Covered:

- JavaScript/TypeScript fundamentals
- Complete React course including hooks, state management, and component architecture
- Next.js as a production-ready frontend framework
- Modern frontend architecture and best practices
- Build tools and bundlers (Webpack, Vite, esbuild)
- Automated testing and quality assurance with Jest/Vitest, React Testing Library, and Playwright
- Performance optimization and Core Web Vitals
- Modern CSS concepts and frameworks
- Web security and best practices

## **AppComp GmbH / Full-Stack-Developer**

October 2020 – July 2022, Mainz

AppComp was founded as an innovative subsidiary to drive the digital transformation of its parent company OrgaSoft. As a Fullstack Developer in a Scrum team, played a key role in the conception and implementation of the technological modernization. The core mission was the strategic migration of an established ERP system into a future-proof, cloud-based architecture.

### **Responsibilities:**

- Contributed to the complete modernization of a legacy ERP system
- Designed scalable software architecture for cloud-based ERP migration
- Coordinated development efforts across frontend and backend teams
- Analyzing requirements and designing software architecture
- Building the frontend with React and React Native
- Developing the backend with Spring Boot (Kotlin)
- Coordinating developers and aligning technical decisions
- Implementing comprehensive testing strategies (Unit, Integration, E2E)
- Collaborating closely with customers to ensure requirements alignment
- Integrating Shell scripts into CI/CD pipelines (Docker, GitLab CI/CD, Jenkins)

### **Technologies:**

React, React Native, TypeScript, Vite, NextJS, React Navigation, Tanstack Router, Jest, Vitest  
Playwright, SpringBoot, Kotlin, JPA/Hibernate, REST with Java, SOAP, GraphQL, Docker, Jenkins, MSSQL, Oracle, Git, Shell Scripts

### **Tools:**

Jira, Confluence

## **axenton GmbH / Full-Stack Developer (Intern)**

September 2019 – March 2020, Mainz

Designed and developed a GDPR-compliant applicant management portal for processing and managing candidate data.

### **Responsibilities:**

- Built a complete applicant tracking system from scratch as an intern
- Developed a reusable UI component library for consistent frontend development
- Designing the software architecture
- Implementing the backend with Spring Boot
- Building the frontend with React
- Creating a reusable UI component library
- Writing Unit, Integration, and E2E tests

### **Technologies:**

SpringBoot, React, TypeScript, Jest, MSSQL, GraphQL, AzureCloud, Jenkins, Docker, Cypress, SonarQube. Kanban,

**Tools:**

Jira, Confluence

### **Kollektiv.Digital (Co-Founder) / Full-Stack-Developer**

November 2016 – April 2019, Wiesbaden

Co-founded a digital agency specializing in software development. Played a central role in planning, conception, and delivery of client projects. Close client collaboration was a key factor in ensuring successful project outcomes.

**Responsibilities:**

- Co-founded and grew a digital agency from the ground up
- Successfully delivered over 10 client projects across various industries
- Planning and scoping client projects
- Designing software architecture for web applications
- Implementing fullstack solutions from frontend to backend
- Managing client relationships and requirements

**Technologies:**

PHP, Wordpress, NodeJS, React, Angular, JavaScript, TypeScript, CSS/HTML, PrestaShop, SpringBoot, JPA/Hibernate Java, Gitlab, Python

### **Self-Employed / Online Marketing & SEO**

October 2015 – January 2018, Wiesbaden

Built and monetized affiliate projects while providing SEO optimization services for local small and medium-sized businesses.

**Responsibilities:**

- Successfully launched and managed multiple revenue-generating affiliate websites
- Improved search engine rankings for local SMB clients
- Creating and optimizing affiliate websites for organic traffic
- Implementing SEO strategies for local businesses
- Analyzing performance metrics and optimizing conversion rates

**Technologies:** WordPress, Google Analytics, Google Search Console, SEO Tools

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## Certifications

**iSAQB CPSA (Software Architecture) Foundation Level**

March 2024

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## Education

**Media Informatics at Hochschule RheinMain / Bachelor of Science (2.0)**

October 2016 – March 2021,  
Wiesbaden

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## Languages

German (Native)

English (Fluent, B2)