

# Dennis Mainhardt Software Engineer

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🚩 Available for hire 💬 LinkedIn 🐧 GitHub 🔗 Portfolio



## Personal Featured Project

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### Bestii.me 🌐

Created a therapeutic AI chat platform where users can openly discuss emotions and receive honest, thoughtful feedback. Started as an experiment with **LLM APIs** and really opened my eyes to what's possible with artificial intelligence.

#### Technical Implementation:

- Developed with **React**, **TypeScript**, and **Firebase** for real-time chat functionality
- Integrated **OpenAI GPT-4** and **Anthropic Claude APIs** for natural conversation flow
- Built **dual-persona system** with distinct AI personalities for varied conversation styles
- Designed **conversation memory system** for personalized, context-aware responses

**Impact:** Delivered a safe space where people can actually open up about their emotions and struggles without worrying about judgment, helping them to grow and reflect.

## Professional Experience

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### Software Engineer

09/2025 – Present | Aachen, Germany

SOPTIM AG

- Built full-stack **TypeScript applications** on **AWS** for energy-sector clients using **React/Next.js**
- Implemented **RESTful APIs** and backend services using **TypeScript**, **Lambda**, and **API Gateway**
- Improved **application performance** through code optimization, refactoring, and best practices
- Collaborated in **agile teams** to deliver features from concept to production

### Jr. Front-End-Developer & Apprenticeship Experience

10/2020 – 03/2025

publicplan GmbH

Düsseldorf, Germany

- Built government web applications serving German citizens using **React**, **TypeScript** & **Next.js**
- Implemented **WCAG-compliant** interfaces with **responsive design** and **SEO** optimization
- Optimized application performance through strategic code refactoring and architecture improvements
- Developed **API integrations** with **GraphQL/REST** endpoints and comprehensive team documentation
- Established testing frameworks using automated **unit tests** and **Cypress** end-to-end testing
- Collaborated in **agile teams** with designers, product managers, and government stakeholders
- Integrated modern development tools and explored **AI-assisted workflows** for improved code quality

## Technical Skills

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**Frontend:** React, Next.js, TypeScript, JavaScript, HTML/CSS, Tailwind, Material UI, Responsive Design

**Testing & Quality:** Jest, Cypress, Unit Testing, ESLint, Prettier, SEO Optimization, Accessibility (WCAG)

**Tools & Workflow:** Git, GitLab CI/CD, Vite, npm/Yarn, VS Code, Jira, Confluence, Headless CMS (Strapi)

**APIs & Integration:** GraphQL, REST APIs, JSON, Firebase, AWS, Node.js, OpenAI/Claude APIs