Joschua Haß

Full-Stack Software Engineer | TypeScript, React, Node.js

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Summary

Full-stack software engineer who has been building production software since 2021. After my apprenticeship, I spent two years as the sole engineer at a small e-commerce company, where I replaced a hard-to-maintain core platform with TypeScript, Next.js, NestJS and PostgreSQL. I also built its integrations with Shopify, JTL and Galaxus and looked after production. Along the way, I cut the slowest database job from over 10 minutes to under 10 seconds.

Work Experience

Independent Software Engineer | Personal Projects, Germany and Japan — Dec 2025 – Nov 2026

After Elektrohub, I worked on two products of my own and spent four months studying Japanese in Japan. The first was a scheduling tool for care services, and the second a workflow platform I built as a technical challenge.

Luma | Commerce workflow platform, self-initiated technical project (not launched) — Sep 2026 – Nov 2026

- Explored how far a workflow platform can be customized while staying secure: a workflow engine on Temporal with versioned workflows and TypeScript steps sandboxed in WebAssembly
- Required policy checks, approvals and an audit trail for changes to external systems, with a separate check that each change actually happened
- Separated tenant data with PostgreSQL row-level security
- Connected Shopify, JTL, Cin7, Starshipit and Gmail through a shared data model, and built a simulator of Shopify and JTL to test complete flows without real accounts
- Worked with AI coding agents, backed by CI quality gates, end-to-end and browser tests, and load testing

Technologies: TypeScript, React, Node.js, PostgreSQL, Temporal, WebAssembly, AWS, AWS CDK

ShiftIQ | Workforce scheduling for care services — Dec 2025 – Apr 2026

- Developed a scheduling product together with a care-service manager, using constraint optimization to account for availability, contracts, preferences and staffing requirements
- Wrote a separate solver service for configurable rules and staff preferences
- Stopped the project before a pilot when the care service that planned to adopt it had to back out because of existing vendor commitments

Technologies: Next.js, NestJS, PostgreSQL, Python, FastAPI, OR-Tools

Full-Stack Engineer | Elektrohub — Feb 2024 – Jan 2026

I was the only engineer at this e-commerce company, which had around 10 employees at its largest. I was responsible for the platform behind the online shop and its day-to-day operations.

- Replaced a Laravel and Vue.js core platform that had become hard to maintain with NestJS, Next.js, TypeScript and PostgreSQL, and shipped the full migration
- Introduced automated tests, Sentry monitoring and backups to a system where production failures were often noticed too late
- Optimized database queries across the platform, including product and variant search with inventory data, making them about 80% faster on average and cutting the slowest job from over 10 minutes to under 10 seconds
- Designed a connector architecture for Galaxus, JTL Wawi, JTL Fulfillment Network, Shopify and the company's own B2B shop
- Rebuilt the B2B shop as a more responsive React application, so customers could search and place orders faster
- Adopted AI coding tools early to speed up development, and built an internal LLM tool that generates Shopify blog posts, including tags and SEO details, from information provided by the user
- Ran releases, infrastructure and incident response with Docker, GitHub Actions, DigitalOcean and Vercel, and built analytics dashboards for the business
- Set priorities directly with management, employees and B2B customers, and worked with 2–3 external development teams on client projects in WordPress and Laravel

Software Development Apprentice | Nistech Aug 2021 – Jan 2024

During my apprenticeship, I helped modernize Qualli.life, a long-running desktop product.

- Migrated Visual Basic code to C# with .NET Framework, WPF, MVVM and Entity Framework
- Built IntelliSense-style autocomplete and syntax highlighting for placeholders in document and print templates
- Redesigned the contacts module for the final IHK project, covering asynchronous loading, permissions, printing, multi-user use and centralized data access

Side Projects

Sparky | Companion app for Kia and Hyundai electric vehicles Nov 2022 – May 2025

- Built an iOS app with Siri support, widgets, Live Activities, detailed drive data and flexible climate scheduling

Technologies: SwiftUI, Xcode, Next.js, Vercel

NG001 | Custom vehicle lighting system Aug 2023 – May 2025

- Designed and built an ambient lighting system integrated with the vehicle, from CAD parts to electronics and firmware

Technologies: Arduino, C++, CAD, electronics

Skills

Languages: TypeScript, JavaScript, SQL, C#, Python, PHP, Swift
Frontend: React, Next.js, Vue.js, Tailwind CSS, SwiftUI, WPF
Backend: Node.js, NestJS, FastAPI, Laravel, .NET, Temporal
Data: PostgreSQL, query optimization, row-level security, Entity Framework
Infrastructure: Docker, GitHub Actions, CI/CD, AWS, AWS CDK, DigitalOcean, Vercel, Sentry
Integrations: Shopify, JTL Wawi, JTL Fulfillment Network, Galaxus, Cin7, Starshipit
Testing: Vitest, Playwright, end-to-end and browser testing, load testing
AI-assisted development: Coding agents with OpenAI and Anthropic models

Education

Fachinformatiker für Anwendungsentwicklung (IHK) | German dual apprenticeship in software development, combining vocational school and full-time work Jan 2024

- Final result: 83 points (Good). Completed in 2.5 years instead of the usual 3

Languages

German (native), English (fluent), Japanese (basic, JLPT N5 level)