

PROFILE

Software engineer combining Python backend and REST API development at Siemens with TypeScript/React full-stack experience. Experienced in AI-assisted software development, using coding agents to implement, debug and refine applications while validating changes through tests and code review. Builds LLM-powered tools and stateful automation with a focus on maintainability, reliability and safe execution. M.Sc. Informatics, TUM.

TECHNICAL SKILLS

Programming & Backend: Python, TypeScript, JavaScript, SQL, FastAPI, Flask, REST APIs, GraphQL
AI & Agentic Engineering: Cursor Agent, Codex, Claude, Gemini, LLM APIs, agent orchestration, RAG, embeddings
Automation & Testing: Playwright, Selenium, Chrome CDP, pytest, integration testing, regression testing
Frontend & Data: React, Next.js, Remix, WebSockets, PostgreSQL, SQLite, Qdrant
Systems & DevOps: Linux, Docker, Git, Bash, GitHub Actions, GitLab CI/CD, Jenkins
Languages: Turkish (native), English (C1), German (A2)

PROFESSIONAL EXPERIENCE

- Siemens**

Software Engineer (Working Student) – SiESTA OT/IT Security

 - Develop Python backend utilities and CLI applications integrating REST APIs for platform configuration, resource management and automation.
 - Implement reusable API client workflows for authentication, request/response handling, task execution and structured error processing.
 - Integrate and debug Python tooling across Linux-hosted services, addressing interface, configuration and dependency issues in enterprise workflows.

Munich, Germany

Apr 2023 – Present
- Julius Brantner Brothandwerk**

Full-Stack Software Engineer (Working Student)

 - Developed end-to-end application features using TypeScript, React/Remix, Python/Flask, GraphQL and PostgreSQL, connecting user interfaces with backend services and data.
 - Built real-time monitoring features connecting Raspberry Pi weighing sensors to backend services and live dashboards through WebSockets.

Munich, Germany

Apr 2022 – Feb 2023

SELECTED PROJECTS

- Job Agent – Agentic Automation & Orchestration**

 - Developed a job discovery and application automation platform with ATS integrations, Playwright/Chrome CDP browser workflows and SQLite-backed state tracking.
 - Designed bounded retries, duplicate-submission safeguards, explicit outcome tracking and human handoffs for uncertain or blocked actions.
 - Built a Cursor/Codex coding-agent orchestration workflow with isolated Git worktrees, structured review gates and automated regression checks.

Python, Playwright, SQLite, Codex
- AI-Powered Developer Assistant**

 - Built a repository-aware RAG assistant using code chunking, embeddings and Qdrant semantic retrieval to generate answers grounded in source context.

FastAPI, Next.js, Qdrant, Gemini
- TelemetryGuard AI – Industrial Monitoring**

 - Built a simulated telemetry monitoring application with rule-based alerts, persistent storage and template-based incident reports.

FastAPI, WebSockets, SQLite

EDUCATION

- Technical University of Munich**, Munich, Germany

Master of Science in Management (ongoing)

2025 – Present
- Technical University of Munich**, Munich, Germany

Master of Science in Informatics

2022 – 2025
- Kocaeli University**, Kocaeli, Turkey

Bachelor of Science in Computer Engineering

2017 – 2022