

Mohamed Ali Gaoudi

Full Stack Engineer

Heilbronn, Germany | dali.gaoudi@gmail.com | [LinkedIn](#) · [GitHub](#)

Full Stack Engineer with a Bachelor's degree in Information Engineering (TU Munich) and proven experience in developing cloud-native web applications with React, Node.js, FastAPI, and PostgreSQL. Autonomously realized two production-ready platforms from architecture to deployment — including AI-supported automation, Docker containerization, and REST API design. Brings solid knowledge in Angular, JavaScript/TypeScript, and agile development, and looking forward to contributing to complex customer projects at adesso.

React · Angular · Node.js · TypeScript · JavaScript · Python · FastAPI · Express.js · PostgreSQL · Docker · REST APIs · CI/CD · Git · GCP · Firebase · OpenAI API · Unit Testing · Agile/Scrum

WORK EXPERIENCE

Web Development Intern — Full Stack · B2M, Tunisia 2023 | Remote

- Implemented OAuth 2.0-based authentication flows in an Angular web application; demonstrably reduced unauthorized access to zero in the testing phase.
- Developed and integrated 8+ REST API endpoints between the Angular frontend and Node.js backend, improving page load times of main views by ~30%.
- Applied OWASP Top 10 principles when implementing security-critical features — zero security findings in the final code review.

Tags: Angular · TypeScript · OAuth 2.0 · REST APIs · OWASP · Node.js

Student Researcher — ML Data Repair · TU Munich 2024 (6 mos) | Heilbronn

- Evaluated ML-supported data repair pipelines across 4 structured datasets; identified optimal sequencing strategies that improved data consistency by up to 22%.
- Designed and tested quality workflows combining ML frameworks with rule-based validation — Result: reproducible, automated data cleaning.
- Systematically analyzed and documented pipeline performance in Python (pandas, scikit-learn); results were incorporated into the research group's evaluation.

Tags: Python · scikit-learn · pandas · ML Pipelines · Data Analysis

PROJECTS & ENGINEERING

SmartSendr — AI-Powered Outreach Platform · Independent Dev 2024–2025 | Full Stack

- Developed a complete SaaS platform (React + FastAPI + PostgreSQL) for AI-generated, personalized outreach emails — from database architecture to production deployment.
- Built scalable backend services with Python/FastAPI: authentication, campaign management, and email processing; >10 REST endpoints with comprehensive OpenAPI documentation.
- Integrated OpenAI API for text generation with critical outcome evaluation and quality filters — reduced manual post-processing per campaign by an estimated 70%.
- Implemented GDPR-compliant data storage for contact and communication data in SQL.

Tags: React · TypeScript · FastAPI · Python · PostgreSQL · OpenAI API · Firebase · REST APIs · GDPR

Bailiff Office Intelligence Platform · Independent Dev 2024–2025 | Full Stack, SaaS

- Modernized a legacy system into a cloud-native SaaS platform (React + Node.js/Express + PostgreSQL); migrated all historical data without loss of integrity.
- Designed and implemented RESTful APIs for financial transactions, case management, and user management — fully containerized with Docker.

- Integrated AI-powered automation via OpenAI/OpenRouter API for generating legal documents; reduced processing time per document from ~15 min to <2 min.
- Deployed on Vercel (Serverless); CI/CD pipeline via GitHub Actions for automated testing and deployment.

Tags: React · Node.js · Express.js · PostgreSQL · Docker · GitHub Actions · CI/CD · OpenAI API · Vercel

EDUCATION

B.Sc. Information Engineering · Technical University of Munich

Graduation 02/2026 | Heilbronn

Focus: Machine Learning, Databases (SQL & NoSQL), Data Structures & Algorithms, Software Engineering, Cyber-Physical Systems.

TECHNICAL SKILLS

Frontend | React, Angular, TypeScript, JavaScript, PWA, Single-Page Apps, Webpack

Backend | Node.js (Express, NestJS), FastAPI, Python, Java, REST APIs, Microservices

Database | PostgreSQL, SQLite, SQL, NoSQL, Firebase

DevOps / Cloud | Docker, GitHub Actions (CI/CD), Kubernetes (Basic knowledge), GCP, Vercel

AI & Automation | OpenAI API, OpenRouter, LLM Integration, Critical Outcome Evaluation

Testing & Quality | Unit Testing (Jest, pytest), Code Review, Postman, API Testing

LANGUAGES

Arabic | Native

German | B2 — Confident use in project communication and client meetings

English | C1 — Fluent / Business Fluent

French | B2