

Muhammad Jibran Mughal

Software Engineer — Full-Stack & Automation

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Software engineer, M.Sc. Information & Communication Engineering at TU Darmstadt (thesis stage), who builds **full-stack internal tools and operations automations** end to end — from Next.js web apps and support-ticket automations to integrations across telephony, CRM and ERP systems. **10+ Dockerized services** in daily company-wide use, each owned from requirements to deployment. **Studying part-time — available full-time now.**

◆ Skills

Python: FastAPI, Flask, automations, web scraping, LLM tooling
TypeScript / JavaScript: React, Next.js, Node.js, Fastify, Nuxt 3 / Vue
AI / LLM Integration: OpenAI, agentic & RAG automations, prompt engineering
Databases & SQL: PostgreSQL, Prisma, SQLite, Firebase, REST APIs
DevOps & Cloud: Docker & Compose, Coolify, CI/CD, Linux/VPS, GlitchTip, Git
Platforms & Integrations: Shopware 6, Freshdesk, 3CX, Navision, Google Workspace APIs

■ Experience

Sep 2025 – Aug 2026 Frankfurt, DE	Software Developer (Working Student) <i>HolzProfi24 — Holzland Becker GmbH</i> - Built full-stack internal web apps in Next.js / React (TypeScript, Tailwind): a photo-submission portal for a customer build competition (resumable TUS uploads, Cloudflare Turnstile, Resend), a complaint (Reklamation) form, and a social-login club-voting platform (NextAuth, Prisma, i18n); built an in-house applicant-tracking system to replace a paid SaaS subscription — public careers site + hiring pipeline, Firebase auth. - Built Python automations for support & back-office ops: auto-generated German replies for aging Freshdesk tickets, a Storno/Widerruf (cancellation) flow across Navision & Freshdesk, and a Jira ticket-analysis pipeline (OpenAI) surfacing operational blockers. - Built integrations & internal tools connecting 3CX telephony, Freshdesk & Navision — a caller-lookup middleware and a call-center interface (Fastify + React) — plus an order-filing tool backed by Google Sheets (FastAPI). - Developed a supplier-discovery system that scrapes & classifies EU manufacturers with OpenAI (Python, Flask); contributed to the company's Shopware 6 storefront (Nuxt 3 / Vue). - Containerized and shipped 10+ services to production with Docker & Coolify, with CI and GlitchTip error monitoring.
Oct 2023 – Aug 2025 Frankfurt, DE	Working Student, Research & Development <i>Emma – The Sleep Company</i> - Built multiple Power Apps applications for the R&D team, logging test data to SQL Server with Power Automate flows and templated Excel reporting via Python on Azure — cutting manual reporting effort. - Ran data scraping & analysis for consumer associations, evaluating and ranking mattresses across multiple countries.
Aug 2021 – Aug 2022 Islamabad, PK	Machine Learning Research Intern <i>ComSens Lab — COMSATS University Islamabad</i> Designed a hybrid deep-learning model (VGG-16 + DBNN) for electricity-theft detection on the SGCC dataset; outcome considered for publication in IEEE Access.

■ Education

Oct 2022 – Present Darmstadt, DE	M.Sc. Information & Communication Engineering <i>Technische Universität Darmstadt · Focus: ML, Data Science, DSP, Convex Optimization</i>
Aug 2017 – Jun 2021 Topi, PK	B.Sc. Electronics Engineering <i>Ghulam Ishaq Khan Institute of Engineering Sciences & Technology</i>

■ Projects & More

- jobradar** (Python, FastAPI, SQLite, Docker) — watches 97 company ATS boards, reads each posting and classifies it with an LLM; ~5,000 postings tracked.
- To-Bar-Do** (macOS, Swift/SwiftUI) — native menu-bar to-do app I shipped: global hotkey, tobar do: // automation, local storage, unit tests, zero dependencies.
- Active Noise Cancellation** (MATLAB) — adaptive LMS/RLS/NLMS filtering, up to 48 dB suppression on a real-time DSP kit.
- President**, Pakistan Students Assoc. Darmstadt (2023–24) — led the community & organized events.
- Languages:** Urdu (native) · English (IELTS 7.5) · German (A2)

Darmstadt, 4 September 2026

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