

Saim Ahmad

Full Stack Software Engineer & AI Engineer

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PROFILE

Full Stack Software Engineer and AI Engineer with 3 years of hands-on experience designing, building, and deploying production-ready applications across the entire stack. Skilled in Python, Django, FastAPI, Docker, Redis, PostgreSQL, and AWS — comfortable owning every layer from API design to cloud deployment. Deeply passionate about Generative AI and Agentic AI, with real production experience integrating LangChain, RAG pipelines, OpenAI API, and Claude API. Currently advancing my expertise through a Master's degree in Computer Science at Universität Paderborn, Germany.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer | **DiveBridge** · Feb 2025 – Aug 2025 · Lahore, Pakistan

Stack: Python · Django REST · FastAPI · React · Docker · AWS ECS · PostgreSQL · OpenAI API · LangChain · RAG

- **StudyScavenger** — Engineered a HIPAA-aligned clinical research portal with token-protected Django REST APIs enabling researchers to define study criteria, manage patient cohorts, and track enrollment in real time. Integrated an AI-powered eligibility engine using OpenAI API and RAG to intelligently match patients to trials based on medical history, health conditions, and location. Fully containerized on AWS ECS with auto-scaling and zero-downtime deployments.
- **LawAI** — Built a full-stack legal intelligence platform with a Django REST backend processing live court data ingested continuously from authoritative legal sources. Integrated LangChain and RAG over a PostgreSQL-backed vector store, enabling lawyers and users to query thousands of judgments, statutes, and scholarly analyses using natural language. Features AI-generated case summaries, a lawyer booking workflow.
- **DogWalker** — Developed a smart staff operations platform with a React dashboard for managing clients, appointments, and field staff in real time. The backend applies an AI-optimized three-pass scheduling algorithm to assign staff based on preferences, availability, and proximity, then generates optimal multi-stop routes via Google Maps API. FastAPI powers the entire scheduling engine, with live route visualization and one-click report generation.
- **Ecommerce Store** — Architected a production-grade containerized e-commerce platform with Django REST and React, covering token-based authentication, dynamic product catalog, cart management, checkout flows, and payment gateway integration. Full CI/CD pipeline via GitHub Actions with PostgreSQL and Docker for consistent, scalable deployments.

Associate Software Engineer | **TechXelo** · Oct 2023 – Dec 2024 · Lahore, Pakistan

Stack: Python · Django REST · Redis Channels · WebSockets · Celery · PostgreSQL · MySQL · AWS · OpenAI API · Selenium · Playwright

- **Meeting & Chat App** — Architected a real-time, location-aware communication platform supporting one-on-one and group conversations with JWT authentication and role-based access control. Built low-latency messaging using Redis Channels and WebSockets, with live geofenced location tracking via MapMyIndia and Google Maps APIs. Integrated an AI-powered conversation assistant using OpenAI API to provide context-aware smart replies and meeting summaries.
- **NearYou** — Designed and built a proximity-based social and service platform that connects users with buddies based on shared interests and real-time location. Implemented an AI-driven compatibility scoring engine using OpenAI API to rank and surface the most relevant buddies for each user. Real-time messaging powered by Redis Channels and WebSockets, with a PostgreSQL backend managing profiles, payments, and session history.
- **Email Intelligence Platform** — Built an enterprise-grade email validation and enrichment system integrating multiple third-party APIs for deliverability verification and deep profile enrichment across social and professional networks. Applied AI-based normalization using OpenAI API to structure and deduplicate enriched data at scale. Subscription and credit management handled via an integrated payment gateway.
- **Automation Scripts:**
 - **OpenPhone Automation** — Developed Selenium scripts to automate calls, IVR navigation, messaging, and activity logging with retry mechanisms.
 - **Auto-Trading Script** — Engineered a Selenium-driven system for real-time order execution, portfolio monitoring, and live market data capture.

NBA Data Pipeline — Built a multi-source data pipeline using Selenium, Playwright, and BeautifulSoup to aggregate, normalize, and store NBA statistics at scale.

Furniture Catalog Automation — Implemented Playwright and BeautifulSoup scripts to extract and bulk-load product data, images, and pricing across multiple vendor catalogs.

Python/Django Developer Intern | **Enigmatix** · Oct 2022 – May 2023 · Bahawalpur, Pakistan

- **Multi-Brand Data Dynamic website** — Multi-brand marketplace with independent vendor storefronts, unified cart, payments, and analytics. Dockerized for zero-downtime updates.
- **Blood & Organ Donation Site** — Developed a portal with real-time donor/recipient search, location sharing, and automated email alerts on matching.
- **I/O Optimization** — Integrated Python threading to parallelize I/O-bound operations, significantly improving processing throughput.

Python Developer Intern | **Codiux** · May 2022 – Jan 2023 · Multan, Pakistan

- **Auto Scrape** — BeautifulSoup pipeline scraping target sites and populating project database models in real time.
- **Smart CV** — Form-driven PDF CV generator using PDFKit and Pillow for HTML/CSS-to-PDF rendering.

ACADEMIC PROJECTS

EduAI — Adaptive Learning Platform | **Universität Paderborn** · 2025 – 2026 · Germany

Stack: Python · GPT-4 · LangChain · RAG · Prompt Engineering · Generative AI

- Built EduAI, a GPT-4 powered adaptive learning platform under Prof. Christian Koldewey with two core features: (1) A ChatGPT-style conversational AI interface allowing students to ask questions freely, generate text answers, and explore topics through natural dialogue. (2) An adaptive learning engine that ingests PDF course material, tests student understanding, and generates fully personalized remedial lessons including mathematical formulations, visual flowcharts, and curated course recommendations — all tailored to each student's prior knowledge, performance, and desired depth of learning.

SKILLS

Languages	Python · JavaScript · SQL · HTML5 / CSS3
Frameworks	Django · Django REST · FastAPI · React · Celery · WebSockets · Channels · Daphne
Databases	PostgreSQL · MySQL · SQLite · Redis
DevOps & Cloud	Docker · AWS (EC2, S3, Lambda, ECS) · GitHub Actions · CI/CD Pipelines · Git · Jenkins · Vagrant
Frontend	Bootstrap · Tailwind · React · Axios · Three.js
Testing	Selenium · Playwright · BeautifulSoup ·
AI & ML	Generative AI · Agentic AI · LLM Integration · Prompt Engineering · LangChain · RAG · OpenAI API · Claude API · Hugging Face
Libraries	NumPy · Pandas · Scikit-learn · TensorFlow · PyTorch · Matplotlib
Project Management	Agile / Scrum · JIRA · Trello

EDUCATION

MSc Computer Science | **Universität Paderborn** · 2025 – Expected July 2027 · Germany

BSc Computer Science | **Islamia University of Bahawalpur** · Graduated June 2023 · Pakistan

GPA: 3.55 (1.68 in German grading system)

LANGUAGES

English C1 — Advanced

German A1 — Beginner