

Saim Ahmad

Full Stack Software Engineer | Backend Developer | Frontend Developer | AI Engineer | Junior Software Engineer

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PROFILE

Full Stack Software Engineer and **Artificial Intelligence Engineer** with **3 years** of production experience building end-to-end applications across **Backend Development** (Python, Django, FastAPI, PostgreSQL, Redis), **Frontend Development** (React, JavaScript, Tailwind), **Cloud Infrastructure** (AWS EC2/ECS/S3, Docker, CI/CD), and **AI Integration** (LangChain, RAG, OpenAI API, Claude API). Delivered **20+ production-grade applications** spanning **Full Stack**, **Cloud-native**, and **Agentic AI** architectures. Currently advancing expertise through an MSc in Computer Science at Universität Paderborn, Germany.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer | DiveBridge

Feb 2025 – Aug 2025 · Lahore, Pakistan

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

- **StudyScavenger** — Engineered a HIPAA-aligned clinical research portal; **developed** an AI eligibility engine (OpenAI + RAG) that reduced manual patient-to-trial matching by **70%** and improved cohort accuracy by **45%**. Deployed on **AWS ECS** with auto-scaling, achieving **99.9% uptime**.
- **LawAI** — Built a full-stack legal intelligence platform, **architecting** a PostgreSQL vector store indexing **10,000+ judgments**; **integrated** LangChain + RAG, slashing legal research time by **60%** and cutting manual case review by **50%**.
- **DogWalker** — Designed a **3-pass AI scheduling algorithm** that reduced staff assignment conflicts by **55%**; **optimised** routes via Google Maps API, cutting average travel time per shift by **30%**.
- **Ecommerce Store** — **Architected** and **delivered** a containerized Django REST + React platform; **established** full **CI/CD via GitHub Actions**, reducing deployment time by **65%** and achieving **100% zero-downtime** releases.

Associate Software Engineer | TechXelo

Oct 2023 – Dec 2024 · Lahore, Pakistan

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

- **Meeting & Chat App** — **Architected** real-time messaging via Redis Channels + WebSockets, **achieving sub-50ms** delivery; **provided** an AI assistant (OpenAI API) that **eliminated** manual summaries, cutting follow-up time by **40%**.
- **NearYou** — Built an AI compatibility scoring engine (OpenAI API) that boosted relevant buddy-match rate by **35%**; **added** real-time location features, increasing platform engagement by **28%**.
- **Email Intelligence Platform** — **Developed** an enterprise enrichment system, **integrating 5+ third-party APIs**; **enforced** OpenAI-based deduplication, improving data quality by **50%** and reducing manual cleanup by **75%**.
- **Constructed 4 automation scripts** (OpenPhone, auto-trading, NBA pipeline, furniture catalog) using Selenium + Playwright, **eliminating** manual data-collection effort by **80%**.

Python/Django Developer Intern | Enigmatix

Oct 2022 – May 2023 · Bahawalpur, Pakistan

- **Shipped** and **Dockerized** a multi-brand marketplace with independent vendor storefronts, reducing deployment overhead by **40%** and **achieving** zero-downtime across all updates.
- **Built** a blood & organ donation portal with real-time matching and automated alerts, **accelerating** donor-recipient response time by **60%**.
- **Optimised** I/O-bound operations with Python threading, **boosting** processing throughput by **45%**.

Python Developer Intern | Codiux

May 2022 – Jan 2023 · Multan, Pakistan

- **Devised** a BeautifulSoup scraping pipeline populating database models in real time, **eliminating** manual data entry by **90%**.
- **Iterated** a form-driven PDF CV generator (PDFKit + Pillow), **slashing** document production time from **hours** to under **2 minutes**.

ACADEMIC PROJECTS

Adaptive Retrieval-Augmented Generation — (ARAG) | Universität Paderborn, DICE Research Group

Apr 2026 – Present

Python · FastAPI · React · TypeScript · RAG · ChromaDB · LLMs · NLP · Ollama

- **Designed and iteratively improving** a full-stack AI assistant (under the guidance of Dr. Mohamed Ahmed Sherif, Senior Postdoctoral Researcher) that lets users upload documents, create knowledge bases, and ask questions with streamed, citation-backed answers over their private data.
- **Implemented and currently optimizing** an adaptive RAG pipeline that classifies query intent and dynamically chooses retrieval, summarization, reranking, and generation strategies instead of relying on a static retrieval workflow.
- **Combined and continuously refining** dense vector search, TF-IDF/BERT retrieval, adaptive chunking, ChromaDB indexing, FastAPI APIs, React UI, SQLite persistence, and local/cloud LLM generation through Ollama and Gemini.

EduAI — Adaptive Learning Platform | Universität Paderborn

Oct 2025 – Mar 2026

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

- **Authored** a GPT-4 powered conversational AI interface (under the guidance of Prof. Christian Koldewey), **cutting** student question-resolution time by **55%** vs. traditional forum support.
- **Implemented** an adaptive engine that ingests PDF course material and **auto-generates personalised remedial lessons** (math formulations, flowcharts, course recommendations), **reducing** knowledge-gap closure time by **40%**

SKILLS

Languages: Python · JavaScript · TypeScript · SQL · HTML5 / CSS3

Backend: Django · Django REST · FastAPI · Celery · WebSockets · Channels · Daphne · REST APIs

Frontend: React · Vite · Tailwind CSS · Bootstrap · Axios · Three.js

Databases: PostgreSQL · MySQL · SQLite · Redis · ChromaDB

Cloud & DevOps: AWS (EC2, S3, Lambda, ECS) · Docker · GitHub Actions · CI/CD · Jenkins · Vagrant

AI & ML: Generative AI · Agentic AI · LLMs · RAG · Adaptive RAG · LangChain · OpenAI API · Claude API · Gemini API · Ollama · HuggingFace · Prompt Engineering

Retrieval & NLP: Vector Search · Hybrid Retrieval · Dense/Sparse Retrieval · TF-IDF · BERT Embeddings · Sentence Transformers · Reranking · Text Summarization

Testing & Scraping: Selenium · Playwright · BeautifulSoup

Libraries: NumPy · Pandas · Scikit-learn · TensorFlow · PyTorch · Matplotlib

Project Mgmt: Agile / Scrum · JIRA · Trello

Operating Systems: Linux · macOS · Windows

EDUCATION

MSc Computer Science

2025 – Expected Jul 2027

Universität Paderborn · Paderborn, Germany

BSc Computer Science

Graduated Jun 2023

Islamia University of Bahawalpur · Pakistan GPA: **3.55** (1.68 German scale)

LANGUAGES

English: C1 Advanced · German: A1 Beginner