

Saad Bin Abi Usama

Full Stack Engineer | Generative AI Engineer

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Professional Summary

Backend and AI focused Software Engineer with experience in building and deploying full-stack web applications (**Python, FastAPI, Node.js, Nest.js, Next.js**) and integrating Generative AI solutions (**LangChain, RAG, OpenAI API**). Skilled in designing scalable architectures, APIs, and cloud deployments (**AWS, Docker, Kubernetes**). Strong interest in **AI Agents** and applied AI-powered applications.

Experience

Associate Software Engineer, DevVerge – Lahore Dec 2024 – Aug 2025

- Built and maintained **full-stack web applications** using **Next.js** and **Nest.js/Express.js** for both client projects and in-house products.
- Led **end-to-end development** of new products from scratch, including **architecture design, API development, and deployment**.
- Integrated **third-party services** (authentication, payments, emails, file uploads) and optimized application **performance and scalability**.

Software Engineer Intern, PITB – Lahore June 2023 – Aug 2023

- Gained exposure to **real-world software development processes** and **full-stack application workflows**.
- Collaborated with a small team on ongoing projects, contributing to **backend development, API integration, and overall project workflows**.
- Assisted in **debugging, code optimization**, and enhancing application functionality while observing the development of larger systems.

Projects

TimeCapsule AI, Final Year Project May 2025 – Ongoing

- Developing an AI system that animates historical figures from images/paintings, combining **facial animation, lip-syncing, and speech synthesis**.
- Designed for applications in **education, museums, documentaries, and digital preservation**.
- **Technologies**: Python, Flask/Django, TensorFlow/PyTorch, DeepFaceLab, OpenCV, First Order Motion Model, Wav2Lip, ElevenLabs.

Skills & Technologies

- **Backend Development**: REST APIs, Node.js, Express.js/Nest.js, Python, FastAPI, SQL, Supabase
- **Databases**: MySQL, PostgreSQL, SQLServer, MongoDB, Redis
- **Frontend Development**: React.js/Next.js, JavaScript/TypeScript, Tailwind CSS
- **DevOps & Cloud**: AWS, CI/CD, Docker, Linux, Bash
- **Generative AI**: OpenAI, LangChain, LlamaIndex, RAG, Vector Databases (Pinecone, Chroma), Hugging Face

Education

Virtual University, BS in Software Engineering Sept 2021 – March 2026

- **Coursework**: Software Architecture and Design, Artificial Intelligence, Data Structures and Algorithms, Computer Networks, Database Management System, Operating System, Web Services Development in Java, Object Oriented Programming in c++ , Software Quality Engineering,