

Devansh Sharma

AI Backend Engineer

Contact

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Education

B.E. Computer Science
Chandigarh University
2021 – 2025 / CGPA: 7.79

Intermediate (Non-Med)
Darshan Academy (CBSE)
2020 – 2021 / 81.4%

Matriculation
Darshan Academy (CBSE)
2018 – 2019 / 83.6%

Skills

Languages

Python, C++

AI & Machine Learning
LLMs, RAG, LangChain, Ollama,
Hugging Face

Backend & Frameworks
FastAPI, Django, Streamlit

Cloud & Architecture
AWS (Fargate, Step Fn, Lambda, SQS,
Polly), GCP, Docker, Linux

Databases
PostgreSQL, MongoDB

Frontend
HTML, TailwindCSS, Vue.js, Nuxt.js,

Certifications

- **Summer School on AI**
UUST Russia (May 2024)
- **AWS Cloud Architecting**
AWS Academy (Mar 2024)
- **ROBO AI Diamond Cert**
ROBO AI (Jan 2024)
- **Data Science using R**
Chandigarh Univ (Jan 2023)

Publications

- **Telemedicine Platform**
IEEE Xplore (Dec 2024)
- **RFID Toll Management**
IJISRT (Nov 2023)

Summary

Backend Developer specializing in scalable API architecture and cloud infrastructure. Proficient in Python (FastAPI, Django) and orchestrating containerized workloads on AWS and GCP. Experienced in engineering robust server-side solutions and integrating production-grade AI pipelines.

Work Experience

Zryth Solutions

Artificial Intelligence Engineer Intern

Agra, India (Hybrid)

Oct 2025 – Feb 2026

- Led a 3-member team to overhaul Oswaal AI's full-stack architecture (FastAPI, React) and system design, delivering a new UI, reporting module, and prompt library.
- Managed Elasticsearch/Qwen RAG pipelines for OCR-based educational content; migrated LLMs from OpenAI to Gemini, boosting overall system efficiency by 24%.
- Built automated media pipelines utilizing Gemini and the Gamma API to generate dynamic presentations and custom text-to-speech AI podcasts.
- Orchestrated AI microservices (AWS Fargate, GCP) for new proofreading tools and developed a Django CRM for jewelry manufacturing inventory.

GrowthPurple Technologies

ML Mentee (Trainee)

Hyderabad, India

Jun 2023 – Apr 2025

- Developed a real-time document interaction backend using **LangChain** and LLMs with a Streamlit interface.
- Implemented **RAG (Retrieval-Augmented Generation)** architectures to enhance context retrieval accuracy.
- Collaborated with senior engineers to streamline model deployment pipelines.

Indian Institute of Technology Guwahati

Research Intern – Dept. of CSE

Assam

May 2023 – July 2023

- Accelerated DNN inference on Network-on-Chip (NoC) architectures using **Timeloop**, C++, and Python.
- Achieved **23% latency reduction** through optimized data mapping and efficient memory scheduling.

Projects

Kuebiko Comics | *Vue.js, FastAPI, PostgreSQL*

Feb 2026 – Present

- Developed a full-stack comic platform connecting independent Indian artists with readers.
- Implemented authentication, RBAC, and neobrutalist design.

DeoAI | *Python, PyTorch, Diffusers, FFmpeg*

Jun 2025 – Sept 2025

- Built a modular pipeline to transform scripts into faceless videos with AI-generated visuals and voiceovers.
- Leveraged Chatterbox-TTS, Stable Diffusion, and MoviePy with efficient GPU utilization.

PaperWise | *PySide6, Ollama, PyMuPDF, LangChain*

May 2025 – June 2025

- Engineered an intelligent PDF assistant for seamless document interaction, smart Q&A, and offline AI processing.

Big Defend | *NumPy, Nmap, Scapy, Scikit-learn*

Jan 2025 – Mar 2025

- Developed an open-source real-time cybersecurity incident response system using Big Data technologies.