

# AMANPREET SINGH

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## PROFESSIONAL SUMMARY

Backend Engineer specializing in **FastAPI**, scalable systems, and applied AI, with hands-on experience building **RAG pipelines**, Dockerized ML platforms, and developer tooling. Proven ability to design and deploy production-ready systems, demonstrated through open-source frameworks (RunAPI) and end-to-end ML platforms (MLCore).

## EDUCATION

**Chandigarh College of Engineering and Technology** Dec 2021 – June 2025  
*B.E. in Computer Science and Engineering (8.0 CGPA)* Chandigarh, India

- Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems (DBMS), Artificial Intelligence, Computer Networks, Object-Oriented Programming.

## PROJECTS

**RunAPI (Open Source Framework)** | *Python, FastAPI, CLI, PyPI* | [GitHub](#) Creator & Maintainer

- Developed and published **RunAPI** on PyPI, a Next.js-inspired file-based routing framework for FastAPI, designed to simplify and scale backend architecture for large Python applications.
- Engineered a custom **CLI tool** for rapid project scaffolding and integrated production-ready features including **JWT authentication**, middleware support, and standardized error handling.

**MLCore (ML Platform)** | *Python, FastAPI, Next.js, Docker, SQLAlchemy* | [GitHub](#) Creator & Maintainer

- Engineered a **self-hosted, Dockerized ML platform** supporting end-to-end workflows including dataset ingestion, model training, experiment tracking, and model export through a unified interface, with **350+ Docker pulls** demonstrating real-world usage.
- Packaged the platform as a **single-container system** (“one image, one port”) enabling reproducible environments, simplified deployment, and multi-user scalability.

## EXPERIENCE

**Backend Developer** Dec 2025 – Present  
*Code Samdevx* Remote

- Architected the **Mr. Manager** backend utilizing **FastAPI** and **SQLAlchemy**, integrating **Grafana** for real-time monitoring and implementing automated **CI/CD pipelines** for high availability.

**Full Stack Developer Intern** Sep 2025 – Dec 2025  
*Vexocore* Remote

- Spearheaded the **Prishigo ride-sharing platform** using **Flutter** and **ExpressJS**, delivering real-time GPS tracking and scalable request matching for Captain/User apps.
- Developed the **Meetgrow** event ecosystem (Web & App) using **Next.js**, **Flutter**, and **Supabase**, integrating secure ticketing payments and comprehensive **Admin/Organizer panels**.

**Full Stack Developer Intern** Mar 2025 – Sept 2025  
*Lafleurtech* Remote

- Engineered an end-to-end **RAG system** for government clients (JAC, NDMC) and a scalable platform enabling users to **ingest and query custom datasets**, reducing response times by **over 40%**.

**Flutter Developer Intern** Dec 2024 – Mar 2025  
*Celebrare* Remote

- Launched **5+ major features** across the **Celebrare** and **WowInvite** iOS applications using **Flutter**, optimizing UI performance and driving a **15% increase** in user engagement.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript (Node.js), C/C++, Java, Rust  
**Web/Backend Frameworks:** Next.js, Nest.js, FastAPI, Express.js, React, Flask, RunAPI  
**AI/ML & Data:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, XGBoost, RAG Systems  
**Mobile Development:** Flutter (iOS/Android)  
**Databases/BaaS:** PostgreSQL, MongoDB, MySQL, Appwrite  
**Cloud & DevOps:** Docker, AWS (EC2, S3, Lambda), GCP, Git, GitHub