

Jagdeep Singh

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Experience

Backend Developer – Aztlan

Apr/ 2025 - Present

- **Migrated a core Rust-based backend service to Python FastAPI**, improving maintainability and reducing feature delivery time by ~25%.
- **Developed the backend for “Superalign Core”**, a platform to manage 100+ AI models, datasets, and use cases with configurable evaluation frameworks, proof document uploads, and audit workflows used by multiple enterprise clients.
- **Built an API-first document classification system** for a banking client, automating categorization, validation, and policy checks for 5K+ loan application documents each month.
- Delivered scalable, modular services using **FastAPI, PostgreSQL, SurrealDB, and Google Cloud**, improving API response times by ~30% and deploying self-hosted infrastructure (Coolify, SurrealDB) with CI/CD integration.

Backend Engineering Intern – Sequoia Consulting Group - Bangalore

Apr/ 2024 - Mar/2025

- Built a **merit plan cloning feature** (Python, Golang, MongoDB, AWS, Redis) to duplicate configurations and data, streamlining setup for merit cycles.
- Developed a **notification system** (Python, AWS SNS/SQS/SES, Lambda) with a wrapper API for internal service integrations, ensuring reliable and durable delivery.

Projects

Video Streaming Pipeline - Node.js, AWS (ECS, S3, SQS, Event Bridge), FFmpeg, Docker, MongoDB

- Developed a scalable video processing system that converts uploaded videos into HLS format for adaptive bitrate streaming and uses AWS ECS fargate for serverless computing

Coffee Time - Express.js, React.js, JWT, Email.js, Multer, MongoDB, Firebase

- Built a full-stack e-commerce platform with JWT authentication to manage secure user sessions.
- Integrated Email.js for automated order confirmations and Multer for handling product image uploads.

Skills

- **Languages:** Python (FastAPI), Golang (Gin), React, NodeJS, Java
- **Databases:** MongoDB, MySQL, PostgreSQL, Redis (Caching)
- **Developer Tools:** Git, Linux
- **Cloud Tools:** AWS, Azure, GCS, Cloudflare, Coolify, Docker, Jenkins
- REST APIs, Microservices

Education

- **B.E. Computer Science Engineering**, Chitkara University
CGPA: 9.72
- **Class 12 (CBSE)**, Guru Nanak Foundation Public School
91.8%

2021-2025

Rajpura, Punjab

2020-2021

Mohali, Punjab

Certifications

- **Generative AI – Coursera** - [View Certificate](#)
- **Python for Data Science – Sololearn** - [View Certificate](#)

May/ 2023

Nov/ 2022