

Jagdeep Singh

[linkedin.com/in/jagdeepsingh1693](https://www.linkedin.com/in/jagdeepsingh1693)

Mohali, Punjab, India | +91-7658806802 |

jagdeepsingh1630@gmail.com | [Portfolio](#)

Experience

Backend Engineering Intern – Sequoia Consulting Group - Bangalore

04/ 2024-Current

Merit Planning Clone Feature:

- Developed a cloning feature to duplicate entire merit plans, including **configurations, fields, and key data**, streamlining plan creation for teams managing multiple plans.
- Enhanced employee data upload functionality by implementing **batched processing**, improving **database query performance**, and reducing upload time by **40%**, improving system stability.
- Implemented the backend for a redesigned UI that concealed irrelevant data, reducing potential security risks and improving user focus.

Notification Sending System:

- Built a robust email delivery system using **AWS SNS**, and **SQS**, ensuring reliable internal mail communication across services.
- Designed a **notification API** that simplified email integration for internal services, reducing development time and increasing adoption by other teams.
- Ensured **message durability** by implementing SNS-SQS architecture, improving reliability during service disruptions.

Monolithic to Microservice Migration:

- Migrated a tightly coupled monolithic module into an independent microservice to improve scalability and deployment stability.
- Decoupled core business logic into its own repository, reducing deployment issues and enhancing fault isolation.
- Improved deployment speed by **30%** by minimizing dependency conflicts and isolating critical services.

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.
- 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 (Fast API, Django), Golang (Gin), React, NodeJS
- Databases:** MongoDB, MySQL, Redis (Caching)
- Developer Tools:** Git, Linux
- Cloud Tools:** AWS, Docker, Jenkins

Education

- B.E. Computer Science Engineering**, Chitkara University
CGPA: 9.72 **2021-Present**
Rajpura, Punjab
- Class 12 (CBSE)**, Guru Nanak Foundation Public School
91.8% **2020-2021**
Mohali, Punjab

Certifications

- Red Hat Application Development I (AD183)** – Red Hat (**Core Java Programming**) **05/2023**
- Python for Data Science** – Sololearn (**NumPy, Pandas, Matplotlib**) **11/2022**