

Jagdeep Singh

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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 **2021-Present**
CGPA: 9.72 *Rajpura, Punjab*
- Class 12 (CBSE)**, Guru Nanak Foundation Public School **2020-2021**
91.8% *Mohali, Punjab*

Certifications

- Generative AI – Coursera** - [View Certificate](#) **05/2023**
- Python for Data Science – Sololearn** - [View Certificate](#) **11/2022**