Karandeep Singh

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Education

Vellore Institute of Technology, Vellore — 2019 − 2023
Bachelor of Technology in Computer Science and Engineering — *CGPA - 8.85*

Experience

AssetPlus | *Software Development Engineer* — **JUL 2023 - PRESENT**

- Developed and Led **OPS ticket system**, that **automates offline processes** while allowing users to **track status**, **streamlining 27+ task classifications**, and reducing avg **TAT by 45%**.
- Owning the development of **analytics for all platforms** (4 Web/App) using mixpanel, paving the way to exhaustive & structured analytics of over **1800+ events**.
- Developed and maintained a product offering **loans against mutual funds**, which involved integration with third-party SDKs, complex aggregations, secret sharing, managing webhooks, and rate limited jobs for tracking.
- Brought in **₹160+ Cr worth of investments** under our management by automating Change of Broker process, and scanned through external investments of clients of our partners, calculating potential AUM gain for them.
- **Revamped Assetplus app** for better user experience, with updated navigation, smoothly animated widgets and updated investment flows.
- Build package for notification and communication, which includes utility functions for SMS, Email, WhatsApp, Dashboard notifications and Firebase Cloud Messaging (FCM).
- Improved development speed by contributing to the internal UI library, resulting in faster feature rollouts.
- Build **dashboards and monitoring tools** for support, marketing and product teams. Involved writing **complex aggregation queries** to analyze data effectively.

Hyperverge | *Software Development Engineer Intern* | *Link* — **DEC 2022 - JUN 2023**

- Responsible for end-to-end ideation and development of crucial features like **payments, document editing, templatizing and contract creation.**
- **Implemented end to end usage based recurring payment** system with constraints for resource access using **stripe**.
- Successfully resolved a long pending issue of a **critical feature to retain word like formatting** in a text editor throughout the process of importing, editing, and exporting the final doc.
- Researched and **implemented visual testing** for the tool which **brought down testing time from 2 days to 1/2hr**, also developed guidelines and automation to increase efficiency.
- Worked with external infosec auditor to **fix security vulnerabilities** on the tool.

Projects

Ticket Portal | *S3, ELK, Payment Gateway, Coupon, Seat Selection and Invoice* — **Link**

- Built ticket portal from scratch under 2 days which includes implementing dynamic pricing, **payment gateway**, invoice generation, and selecting seats, discount codes, and an admin dashboard.
- **Integrated S3** for storing banners, **ELK stack for centralized logging**, analysis and monitoring. Finally Dockerized and deployed the app.

Docstreme | *Web Sockets, End to End Encryption, Anonymous Registration* — **Link**

- **A document editing solution**, which supports real time collaboration.
- Implement **web sockets** to ensure low latency sync, **end to end encryption** to ensure privacy, **anonymous registration** and based on the concept of trustless security.

Technical Skills

Languages: JavaScript, TypeScript, Dart, C++, C, Python, Java
Database: MongoDB, SQL
Frame Works: Express, React, Flutter, Material UI, Tailwind, Bootstrap
Others: AWS(CI/CD PIPELINE, S3, Lambda, SQS, KMS), NodeJs, Docker, Socket.io, ELK(Elastic search, Logstash and Kibana) Stack, AppSmith, Mixpanel, Postman, Git, GitHub

Accomplishments

- **Fullstack Mentor at HVA** Mentor young people from under-resourced backgrounds to secure well-paying jobs in the tech industry, ensuring financial stability in there family.
- **Hackathons** Secured 2nd Runner Up positions at Dackathon ($1000 prize) and Code-Ision (Rs. 30,000) and recognized with Best Beginner Hack at Hack Off V3.0 by MLH. 🔗
- **Leadership** Co-Secretry Punjabi Literary Association.
- **Open Source** secured 5th spot in Mexili Winter of code. 🔗