

Aman Raj

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EDUCATION:

Chandigarh University, Mohali Punjab

Bachelor's in Engineering in Computer Science (B.E - CSE) | (2019 - 2023) | 8.2 CGPA

SKILLS:

Proficient in C/C++, Core Java, Data Structures and Algorithms, Object Oriented Programming, SQL Server, Typescript, Javascript, NestJS, Python, Logstash, PostgreSQL, Elastic Search, Corteza, Angular,

EXPERIENCE:

Remedo (*Full Stack Developer*) | June 2024 - Present

- Engineered [Corteza Server](#) with custom code changes tailored to specific requirements, **optimising** platform functionality for business needs.
- Engineered a PMS-based 3rd party API integration system, using **Object Oriented Design** and **SOLID Principles**, enabling seamless **data syncing and backfilling** into the product database, facilitating enhanced analytics
- **Designed and implemented high-performance Elastic Search Index** using Logstash, handling real-time data synchronization into the index for efficient querying on more than **1,00,000+ records**
- **Optimized** database performance by implementing **indexes**, reducing query execution time from 4 minutes to 13 seconds (**≈94% improvement**).
- **Developed** an **email alert system** to notify of Logstash sync errors, ensuring **system reliability**
- **Collaborated** on the design, development, and testing of the product's back-end, contributing to a robust and scalable architecture
- **Automated** data extraction using Python and Selenium

Clerisy Solutions (*Full Stack Developer*) | June 2023 - May 2024

- Collaborated on working with **WebSocket API** based Chat System to handle user and their access level chats, along with **document sharing**, **Active status**, **Typing status** and **Unread Push Notification**
- Engineered a **Document Manager System** like **Google Drive** (Frontend + Backend) for multiple users and their access levels across the project as a **global service** in frontend and uploaded documents to (**GCS Bucket**)
- Engineered **Rest API** system to handle and **sync offline data** from SQLite DB (mobile app) **with Online DB**
- Worked on multiple **DB migrations** to **reshape database tables** according to project requirements
- Worked on migrating database while **retaining old column data**, multiple **triggers** for tables
- Developed an **Rest API** module and integrated it with Frontend to make **infinite scrolling**, reducing the page load time by **30%**
- Worked on **persistent filter** for frontend

Toddle (*Frontend Developer Intern*) | July 2022 - Dec 2022

- Worked on major UI revamp of product website (**React Js**) and mobile app (**React Native**)
- Engineered user interaction **pattern analytics** tracking
- Developed custom features based on **Permission Flag**
- Fixed multiple bugs from **Sentry** report
- Integrated Decimal value support for multiple grading features across the website and app
- Deployed mobile app test builds through the **AppWrite** platform using **GitHub actions CI/CD**

PROJECTS:

Expresscart - (*Full Stack Development*) [\[Link\]](#)

Tech Stack: Angular, Express, Postgres, JWT, Swagger-UI, Openai client, Tailwind CSS, Sequelize ORM

- Developed a Full Stack e-commerce web app with JWT User authentication, Email verification
- Implemented Custom middleware
- Product catalogue, Shopping Cart functionality: Created a product catalogue with feature to add to cart
- Developed Sequelize ORM migrations for **incremental changes** to the database
- Generated API docs using Swagger-UI
- Used Openai to generate angular-typescript Api client

Tech Track Intern - (*High Radius*) [\[Certificate\]](#) [\[Link\]](#)

Tech Stack: React.JS, Python, Java Servlets, MySQL, Flask API, Numpy, Matplotlib

- Developed an AI-enabled Full-stack solution built using **Agile** methodologies
- Responsive Receivables Dashboard, Crud operations, Pagination
- Worked with **45000+ records** in the database
- Trained ML prediction model with an accuracy score of 65.69%