Akashdeep Singh Jassal

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As an engineer, I create innovate and scalable solutions that largely impact consumers day to day life activities. At Beltech AI, I was instrumental in creating software solutions aimed at mitigating traffic congestion and reducing environmental impact. Played significant role in team management regarding requirement planning and execution. I am passionate about creating amazing, potent software solutions that bring societal improvements and keenly look forward to connect with like-minded profressionals.

Professional Experience

- **Beltech AI** - Software Engineer *(July 2022 - Present)*

  - Spearheaded the development of core backend APIs of Challan AI for generating violations, monitoring junction activities, managing signal controls, and providing real-time notifications on violation detections, **architected RESTful services** that integrate seamlessly with the front end for real-time data presentation.
  - Implemented Elasticsearch for geo-spatial and multifilter queries, drastically reducing query response times from **2 seconds to 0.02 seconds**.
  - Developed a suite of APIs for tourism AI app, including QR permit issuance, ticket purchasing for individual and group sightseeing, and implemented **identity card OCR** and **face recognition** models for quick check-in at destinations.
  - Implemented **OAuth Security** authentication with **attribute-based access control** (ABAC) authorization, achieving granular permissions for segregating view and edit rights based on role and location.
  - Worked on designing **star schema** based architecture datamart for storing data, set up an ETL pipeline using the **Pentaho** tool for writing transformations and jobs, authored aggregation queries to gain insights into payment overviews, user product utility, and trends based on timelines.
  - Conducted comprehensive unit and integration testing, achieving over 90 percent code coverage, employed **performance profiling tools** to monitor and optimize the app's performance metrics

  Skills and Tools: **Java, Spring boot, MySQL, Elastic search, Rabbit MQ Prometheus, Grafana, Kafka, Debezium CDC, PostgreSQL, Node.js, Pentaho, Node Js, React Js**

- **Quikr** - SDE Intern *(March 2021 - June 2022)*

  - Led the Quikr Jobs Android app **deployment on playstore currently over 1M downloads**, which included setting app signing keys, registering new codec app signature at backend, setup analytics and initiated beta testing.
  - Developed and maintained seamless integration with the National Career Service **(NCS)** portal, enabling real-time **data migration and synchronization** of job status and applications.
  - Innovated the referral process within the app, introducing a dynamic, user-specific invite system that significantly **increased app downloads** and user engagement by **2 times**.

  Skills and Tools: Java, Spring boot, XML, **Android Studio**

- **Eracost** - Intern *(May 2020 - July 2020)*

  - Worked as a **frontend developer** in building a website for a Blood Donation Organization, which included sections like about us, testimonials, past achievements, facts and awareness about blood donation, and contact us, along with other personal brands' portfolio web-page.
  - **Tutored** students by conducting interactive live sessions focusing on Java fundamentals and advanced concepts which included creating engaging learning materials and exercises.

  Skills and Tools: HTML, CSS, JS, JavaFx, MySQL

Education

- **B.Tech in Computer Science Engineering,** Chitkara University, 2018-2022 - CGPA: **9.77**

- **Senior Secondary (Non-Medical),** GMSSS 19, Chandigarh, 2018 - **Percent: 85.2%**