

Chirag Arora

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Experience

Software Engineer, feb 2024 – Present
Code Brew Labs, Chandigarh


- Designed and implemented an **automated billing system** on a **Node.js platform**, covering end-to-end processes from tax calculation to PDF generation and email delivery. Integrated the **MasterGST API** for automated GST invoicing and accurate tax calculations across all GST types.
- Integrated a **Tus server** to enable chunked video uploads to **AWS S3**, allowing efficient upload of large video files that adjust based on **internet speed**.
- Developed **user analytics** queries using **MongoDB aggregation** to retrieve data on a yearly, quarterly, monthly, and weekly basis for **graphical representation** and insights.
- Conceived and launched a new **sales-management product** from scratch by **implementing APIs from scratch**.

Software Engineer, Apr 2022 – Jan 2024
UpfrontHealthCare, Mohali

- Engineered and optimized complex **SQL queries**, improving report processing speed, **applying indexing, partitioning to enhance data retrieval efficiency and reduce query response time, significantly boosting database performance**.
- Collaborated with client **Medevelop** to integrate and manage data using **Azure Data Factory, developing and deploying data pipelines for XHR datasets and dataflows to optimize data processing**.
- Performed **Dataflows operations** to clean and remove errors/duplicates, **processing 30 million records in 30 seconds**, and saved the data to Azure Data Storage ensuring seamless storage and accessibility.
- Implemented **real-time communication** using **Sockets** and **Server-Sent Events (SSE)** to enable seamless **chat service integration**.
- Developed an automated **data archiving system with MySQL stored procedures**, using **sharding** and **partitioning to improve data management efficiency and reduce primary database load**.

Projects

InfoStream News

- Created a **news application using react.js** where you can get live updated news in different category 
- Use of **routing functionality** where user can get news in different category ie. **Sports, Politics, Science based on date range**.
- Implemented **React Toolkit for efficient state management**, with features like **dynamic filtering**.

Employee Management System

- Implemented features using **Multer.js, AWS Multipart** that allow users to add, update images according to their preferences, **enhancing user engagement and personalization**.
- Integrated **D3.js for data visualization**, enabling admin to **interact with analytics related to gender, attendance, and leaves**.
- Implemented a **CSV export feature** to download filtered user details based on name, email, and department, **enhancing data accessibility and reporting**.

Technologies

Languages: C++, C, Java, SQL, JavaScript, TypeScript, Java

Tools/Technologies: Git, Docker, PM2, AWS, Azure Data Factory

Database: MongoDB, SQL, Redis, Typesense

Education

Sept 2019 – May 2023 **Chitkara University**

- Bachelor of Technology:** Computer Science