

# Ishank Sharma

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## EDUCATION

California State University, Long Beach

Aug 2024 - May 2026

Master of Science in Computer Science

Key Courses - Advanced Algorithms, Advanced Artificial Intelligence, Distributed Systems, Cloud Computing Fundamentals

Ramaiah Institute of Technology, Bengaluru

Aug 2022 - May 2024

B.E in Information Science and Engineering

GPA: 8.52/10

Key Courses - Algorithms, OS, Computer Networks, Machine Learning and AI, Databases, Computational Optimization

## EXPERIENCE

CommercelQ, Bengaluru, India

Software Development Engineer 2 (Python, GraphQL, Databricks, SQL, LangChain)

Aug 2023 - July 2024

- **Designed a budget prediction system:** Developed a recommendation system using historical e-commerce data, weights, and seasonality to predict advertising budget needs, resulting in maximum sales and enhanced customer satisfaction.
- **Solved the cold start problem:** Built a Spark Java pipeline using the factory design pattern to predict historical spend data, addressing the lack of historical data for new customers, leading to more accurate predictions.
- **Optimized Snowflake pipeline:** Reduced Snowflake pipeline costs by 70% by introducing specific dates for backfilling historical data, leading to maximum optimization.
- **Migrated tech stack to Databricks:** Played a key role in migrating from Snowflake to Databricks, reducing infrastructure costs by 52%.
- **Delivered AI-driven projects:** Completed high-quality, AI-driven projects on time, leveraging Langchain, Vector Database, and RAG (Retrieval-Augmented Generation).
- **Enhanced customer experience:** Traveled to Sunnyvale, California to engage directly with customers, building strong relationships and gathering insights to boost customer satisfaction.

Software Development Engineer 1 (Java, Spring Boot, MongoDB, Snowflake, AWS)

May 2021 - July 2023

- **Implemented ETL pipelines:** Designed and implemented efficient ETL pipelines using Snowflake, ensuring timely data ingestion and meeting SLAs for daily processing.
- **Developed real-time dashboards platform:** Built dashboards for fetching real-time Ads and Sales data, enabling users to perform real-time bidding on the CommercelQ e-commerce platform.
- **Created a self-serve dashboard platform:** Developed a platform for users to create custom dashboards, significantly improving user experience and increasing product adoption by 60%.
- **Optimized page load times:** Addressed TP99 page load times through performance improvements.
- **Conducted database performance POC:** Performed proof-of-concept evaluations on Snowflake, Firebolt, and Databricks, enabling the CommercelQ to make informed decisions on scalable database technology.

Internet Archive, San Francisco, California (Remote)

Open Source Contributor

Mar 2020 - Dec 2020

- **Archive.org:** Added keyboard support for zooming in/out on Safari and increased test coverage.
- **OpenLibrary.org:** Enhanced SEO by adding metadata to the index page, improving search visibility and ranking.
- **BookGenomeProject.org:** Developed an XML parser for identifying page types in Internet Archive books and introduced additional stop words for improved text cleanup.

## LEADERSHIP

Google Developers Student Club, Core Team Member | Web Admin

Jan, 2019- Aug 2021

Help the day to day club activities, mentor juniors, manage the club's website, improve coding culture at college

## ACADEMIC PROJECTS

Police Patrol Allocation for NCRB (Winner Smart India Hackathon)

- A smart patrol allocation and monitoring system, Real time visual overview of hot zones, and patrolling cars, Live alerts on the map, as well as SMS notifications to police on where they need to go.

Developers Planet

- Social Networking platform for developers to share their day to day experience, Features: personal news feed, follow accounts, create posts, like and comment on posts, Explore section with trending topics

## ACHIEVEMENTS

Winners Smart India Hackathon 2020, Runners Up - Microsoft Incubate!ND Innovation Series Hackathon,

Runners Up - Reverie Language Hackathon, Honorable Mention- GE Healthcare Precision Hackathon, Runners Up IEEE Ideathon.

## TECHNICAL SKILLS

- **Languages:** C, Java, Python, Golang, Javascript, Typescript
- **Libraries:** Reactjs, Nodejs, Next.js, Express, Babel, ESLint, lodash, moment, pandas, Flask, Keras, Tensorflow, PyTorch
- **Databases:** MYSQL, MongoDB, Redis
- **Operating Systems:** Windows, Linux, MacOS