

# Ishank Sharma

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## EDUCATION

### California State University, Long Beach

Aug 2024 - May 2026

#### Master of Science in Computer Science

GPA: 4.0/4.0

Key Courses - Advanced Algorithms, Advanced Artificial Intelligence, Advanced Software Engineering

### Ramaiah Institute of Technology, Bengaluru

Aug 2017 - May 2021

#### B.E in Information Science and Engineering

GPA: 3.75/4.0

Key Courses - Algorithms, OS, Data Science, Machine Learning and AI, Databases, Big Data, System Design.

## SKILLS

- **Languages:** Python (Advanced), Java (Intermediate), Javascript (Intermediate)
- **Backend Libraries/Frameworks:** Maven, SpringBoot, NodeJS
- **Databases:** MYSQL, MongoDB, RDS
- **Cloud Technologies:** AWS, Databricks, Snowflake, Firebolt
- **Tools:** Maven, New Relic, Heap, CI/CD Pipelines
- **Other Skills:** Building scalable ETL pipelines, data modeling, migration workflows

## EXPERIENCE

### CommerceIQ, Bengaluru, India

#### Software Development Engineer II (Python, Databricks, SQL, JavaSpark)

Aug 2023 - July 2024

- **Budget Prediction System:** Crafted a recommendation engine grounded in statistical models, using historical e-commerce data enriched with seasonality and weighted factors. This tailored system provided precise advertising budget forecasts, aligning spend with sales uplift and maximizing efficiency.
- **Feature Adoption Metrics:** Built pipelines with data from New Relic and Heap, processing user behavior to track and forecast feature adoption. These insights empowered teams to fine-tune new features for stronger engagement.
- **Cold Start Solution:** Tackled the cold start challenge by architecting a SQL workflow that synthesized sales and ad data, yielding robust recommendations for new customers with no prior data.
- **Migration from Snowflake to Databricks:** Led a seamless migration of the budget prediction feature, reducing infrastructure costs by 52% and cutting latency by 80% using indexing and broadcast joins. This upgrade positioned the system for advanced AI capabilities.

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

May 2021 - July 2023

- **Developed a Real-Time Advertising Platform:** Built campaign management platform for fetching real-time (hourly) ads and sales data, enabling users to perform real-time bidding on the CommerceIQ e-commerce platform for Amazon, Walmart, Target and Instacart etc.

#### Software Development Engineer Intern (Firebolt, Snowflake, New Relic, SpringBoot)

Feb 2021 - May 2021

- Streamlined database migration workflows by developing a custom SQL migration layer between Snowflake and Firebolt.

### Internet Archive, San Francisco, California (Remote)

#### Open Source Contributor (Volunteer Work)

- **Archive.org:** Added keyboard support for zooming in/out on Safari and increased test coverage to improve user experience.
- **BookGenomeProject.org:** Developed an XML parser for identifying page types in Internet Archive books and introduced stop words for improved text cleanup.

## ACTIVITIES

- **Apostle Incubator, CSULB:** Tech Collaborator with MBA students to develop an Airbnb-like platform to solve parking problems. The product recently won a \$2,500 grand prize after a successful pitch presentation.

## PROJECTS

- **Police Patrol Allocation for NCRB:** Developed a smart patrol allocation system that visualizes hot zones and provides real-time alerts to enhance police responsiveness.

## ACHIEVEMENTS

- **Winner, Smart India Hackathon 2020:** Designed an interactive map-based system for police monitoring and deployment.
- **Runner-Up, Microsoft IncubateIND Innovation Series Hackathon:** Created a women's safety solution using voice assistants for real-time distress alerts.
- **Honorable Mention CommerceIQ AI Hackathon:** Leveraged LLMs to classify product reviews by sentiment, enabling direct competitor comparisons and actionable insights for strategic brand positioning.
- **GE Healthcare Precision Hackathon:** Focused on hospital internal workflow automation, successfully reducing patient wait times.
- **Runner Up Reverie Language Hackathon:** Used Reverie translation APIs to facilitate real-time communication between speakers of different languages.
- **Runner Up IEEE Ideathon:** Project focused on solving key societal needs.