

Ishank Sharma

Long Beach, California, [Portfolio](#) | [LinkedIn](#) | [Github](#) | [Competitive Coding](#) | Email: ishankdev@gmail.com | Phone: +1 (562)-341-2003

SUMMARY

I build high-performance, cost-efficient data systems that drive automation and business impact at scale. At CommerceIQ, a B2B unicorn SaaS company, I developed production-grade systems used by 2,200+ eCommerce brands, including Microsoft, Kellogg's, Nestlé, Colgate-Palmolive, and Johnson & Johnson, to optimize retail operations and increase profitability.

EDUCATION

California State University, Long Beach Master of Science in Computer Science	August 2024 - May 2026 GPA: 4.0/4.0
Ramaiah Institute of Technology, Bengaluru B.E in Information Science and Engineering	August 2017 - May 2021 GPA: 3.75/4.0

TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, Javascript
- **Libraries:** Spring, Node.js, Flask, Keras, Tensorflow, PyTorch, Scikit Learn
- **Databases and Cloud Technologies:** MYSQL, MongoDB, Redis, Databricks, Snowflake, Firebolt
- **Operating Systems:** Windows, Linux, MacOS
- **Software Types:** SaaS, Data Intensive Applications

EXPERIENCE

California State University, Long Beach – College of Business, Long Beach, California

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|---|-------------------------|
| Graduate Research Assistant (<i>Python, Deep Learning</i>) | February 2025 - Present |
| <ul style="list-style-type: none">• Identifying gaze patterns of the human eye on digital ads, potentially helping companies improve their click through rates and better targeting across demographics and age groups. | |

CommerceIQ, Bengaluru, India

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|---|-----------------------------|
| Software Engineer II (<i>Python, Java SpringBoot, Databricks, SQL, Snowflake</i>) | February 2021 - August 2024 |
| <ul style="list-style-type: none">• Recommendation System: Developed a budget recommendation pipeline using SQL, performing extensive data preprocessing and data cleaning on historical data, that predicted advertising spend with 95% accuracy, leading to a \$200k reduction in wasted customer ad spend.• Designed and implemented backend data infrastructure for a real-time advertising platform, encompassing data collection, data storage, and data processing of 500,000+ hourly ad data points, ensuring data integrity and scalability.• Cold Start Solution: Solved the cold start problem by designing a synthetic data strategy that blended sales and ad performance, enabling 90% accurate recommendations for clients with zero historical data.• Optimised Data Pipelines: Reduced Snowflake pipeline costs by 70% and improved resource allocation and resource optimisation through a strategy of date-specific backfilling, trimming resource use, and eliminating redundant processing, enhancing overall system planning.• Engineered a custom SQL migration layer using extensible design patterns, streamlining database migration from Snowflake to Firebolt and reducing migration time by 40%.• Migration from Snowflake to Databricks: Orchestrated a full migration of the budget prediction feature from Snowflake to Databricks, slashing infrastructure costs by 52% and decreasing latency by 80% using indexing and broadcast joins. | |

Internet Archive, San Francisco, California

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| Open Source Contributor | March 2020 - December 2020 |
| <ul style="list-style-type: none">• Archive.org: <u>Added keyboard support</u> for zooming in/out on Safari and <u>increased</u> test coverage.• OpenLibrary.org: Enhanced SEO by adding <u>metadata</u> to the index page, improving search visibility and ranking.• BookGenomeProject.org: Developed an <u>XML parser</u> for identifying page types in Internet Archive books and <u>introduced</u> additional stop words for improved text cleanup. | |

LEADERSHIP

Apostle Incubator: Served as the sole tech consultant for Apostle Incubator, guiding MBA students.

Google Developers Student Club: Help with the day-to-day club activities and manage the club website.

ACADEMIC AND SIDE PROJECTS

- **Retrieval Augmented Generation Implementation AI**
Constructed a retrieval-augmented generation pipeline utilising LangChain and Python, achieving a 40% reduction in AI hallucination while improving contextual accuracy based on BLEU scores.
- **Hyperparameter Tuning and Experiments with Deep Learning:** Investigated the impact of different activation functions on deep learning model performance and published findings to fix the three biggest causes of inaccurate image classification and gradient vanishing.

ACHIEVEMENTS

- **Winner:** Smart India Hackathon
- **Runner-Up:** Microsoft IncubateIND Hackathon
- **Runner Up:** Reverie Language Hackathon