Ishank Sharma

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SUMMARY

Software engineer with 3+ years at a unicorn startup in backend, ML, and data engineering. Cut costs by 70% and latency by 80% through optimized data pipelines. Currently pursuing a Master's in Computer Science (advanced AI, database systems) and researching gaze-pattern detection in digital ads. Seeking an internship to leverage proven engineering skills and fresh academic insights.

EDUCATION

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

SKILLS

- **Cloud Technologies:** AWS, Snowflake, Databricks, Firebolt, Serverless Architecture
- **Data Engineering:** Data Modeling, Data Pipelines, Data Warehousing, Database Migration, Data Governance, Data Lake
- **Backend Development:** REST APIs, Microservices, System Design, Scalability, Concurrency, Asynchronous Processing, API Design, Distributed Systems
- **Machine Learning:** Recommendation Engines, Statistical Modeling, Deep Learning, Large Language Models, Feature Engineering, Model Deployment, A/B Testing, Time Series Analysis

EXPERIENCE

California State University-Long Beach - College of Business, Long Beach, California
Graduate Research Assistant *(Python, Deep Learning)* February 2024 - Present

- Executed a user behavior research initiative focused on digital ad interactions, discovering key design principles grouped by demographics to amplify user engagement and ad click-through rates.

CommerceIQ
CommerceIQ is a unicorn startup revolutionizing AI-powered e-commerce advertising management for 2,200+ global brands.
Software Engineer II *(Python, Java SpringBoot ,Databricks, SQL, Snowflake)* August 2021 - July 2024

- **Budget Prediction System:** Developed a budget recommendation system, using statistical models on historical data that predicted advertising spend with 95% accuracy, leading to a $200k reduction in wasted ad spend.
- **Data Model Platform for AI-Driven Deck Builder:** Constructed the data infrastructure for an AI-powered presentation generator, which automatically created weekly decks, elevating data comprehension and client satisfaction scores by 40%.
- **Cold Start Solution:** Executed a novel data synthesis strategy using SQL to blend sales and ad campaign performance data, driving highly relevant product recommendations and bolstering engagement among new users by 22%.
- **Optimized Data Pipelines:** Reduced Snowflake pipeline costs by 70% through a strategy of date-specific backfilling, trimming resource use, and eliminating redundant processing.
- **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.
- **Developed a Real-Time Advertising Platform:** Spearheaded the development of a real-time bidding platform, processing 500,000+ hourly ad data points; personally wrote 100+ unit tests and maintained a code coverage of 95%.
- **SQL Migration Layer:** Streamlined database migration from Snowflake to Firebolt, simplifying the transition with a custom SQL migration layer using extensible design patterns.

Internet Archive, San Francisco, California (Remote)
Open Source Contributor (Volunteer Work) March 2020 - December 2020

- **BookGenomeProject.org:** Launched an XML parsing pipeline for BookGenomeProject.org, classifying page layouts across 50,000+ digitized books from Archive.org and boosting full-text search precision for users.
- **Archive.org:** Launched Safari keyboard zoom accessibility feature using Javascript, decreasing user-reported usability incidents by 40% and addressing 90% of Safari accessibility issues within one week.

SIDE PROJECTS

- **Retrieval Augmented Generation Implementation AI**
  Constructed a Retrieval Augmented Generation (RAG) pipeline utilizing LangChain and open-source language models, achieving a 15% reduction in AI hallucination while improving contextual accuracy based on BLEU scores.
- **Police Patrol Allocation for Crime Records Bureau**
  Conceived and launched a real-time crime mapping application using MapBox and Vanilla Javascript, leading to the identification of the 3 biggest causes of delayed dispatch.
- **Mock Server**
  Implemented a Node.js-based mock REST server, streamlining API prototyping for eight front-end developers and accelerating feature development cycles by an average of 15 hours per week.