Ishank Sharma

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SUMMARY

Software engineer with 3+ years of experience in data-intensive applications and data pipelines using Snowflake, Databricks, and AWS. Promoted twice from Intern to SDE II. Built a media budget recommendation pipeline with 95% accuracy, reducing processing time from 1 day to 3 minutes saving 200K $/year. Recognized as a national hackathon winner and top 1.2% coder on CodeWars.

EDUCATION

CALIFORNIA STATE UNIVERSITY - LONG BEACH Long Beach, CA
MS in Computer Science Aug 2024 - May 2026
GPA: 4.0/4.0
Relevant Coursework: Advanced Software Engineering; Advanced Algorithms; Artificial Intelligence, Software Architecture

SKILLS

Languages: Python, SQL, Java, TypeScript, JavaScript, C/C++
Databases / Warehouses: Snowflake, Databricks, ClickHouse, Firebolt, MySQL, MongoDB, Redis
Cloud & DevOps: AWS (Lambda, SQS, Step Functions, EC2), Docker, Terraform, GitHub Actions, Linux
Frameworks & Tools: PySpark, FastAPI, Node.js, Airflow, Kafka, LangChain, RAG

RESEARCH EXPERIENCE

California State University Long Beach - College of Business Long Beach, CA
Graduate Research Assistant Feb 2025 – May 2025
Implemented real-time heatmap overlay using KDE, streaming viewer focus zones on digital ads with 90% accuracy, providing stakeholders instant insights into audience attention shifts and behaviors.

WORK EXPERIENCE

CommerceIQ
Software Development Engineer (Intern → SDE 1 → SDE 2) Aug 2021 – Jul 2024

- **Engineered an AWS-based media budget recommendation** system utilizing Step Functions, SQS, Lambda, and 40 SQL modules, achieving **95% accuracy** in ad spend predictions and cutting processing time from **1 Day to 3 minutes.**
- **Cold Start Recommendation:** Designed and deployed a synthetic data solution integrating sales and advertising performance data, delivering recommendations with **90% accuracy** for clients without historical ad performance.
- **Data Warehouse Migration (Snowflake to Databricks):** Orchestrated migration of a budget prediction feature, reducing infrastructure costs by **52%** and improving latency by **80%** through strategic indexing and broadcast joins.
- **Engineered a Criteo ad campaign automation pipeline**, achieving **60%** reduction in manual campaign adjustments and freeing up **10 hours weekly** for strategic initiatives, such as A/B testing.
- **Multi-Cluster Warehouse Simulation:** Pioneered a multi-cluster warehouse simulation framework in Snowflake, reducing query latency by **22%** and boosting overall system throughput by 30% during peak business hours for 500+ users.
- **Mentored and guided five junior developers** through targeted instruction and regular feedback, improving team productivity by **15%** and significantly enhancing SQL and backend capabilities.

PROJECTS

- Semantic Data Navigator: Constructed a retrieval-augmented generation pipeline utilizing LangChain and Python, achieving a 40% reduction in AI hallucination while improving contextual accuracy (Github).
- Deep Learning Experiments Spearheaded research on activation functions within deep learning models; published findings on GitHub resolving three primary causes of image misclassification and gradient vanishing, improving model accuracy by 15%. (Github).

OPEN SOURCE CONTRIBUTIONS

- Firebolt Data Warehouse - Developed and owned an end to end geospatial analytics dashboard that fetches accidents dataset on an interactive map, implemented connection pooling to enhance latency of the dashboard increasing QPS by 85% (Github).
- Internet Archive - BookGenomeProject.org: Constructed a high-performance XML parser using Python and Beautiful Soup to process Internet Archive books, increasing page type identification speed by 40% and reducing processing time. (Github).

LEADERSHIP

Google Developers Club (Core Team Member): Help day-to-day club activities, manage club websites, conduct hackathons and technical workshops.

HONORS & AWARDS

Winners SIH 2020 - Largest National Hackathon with over 200,000+ Participants
Runners Up - Microsoft IncubateIND Innovation Series Hackathon (Link)