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EDUCATION

California State University, Long Beach   Long Beach, CA

M.S. in Computer Science, GPA: 4.0/4.0   *Aug 2024 – May 2026 (expected)*

- **Concentrations**: Software Engineering & Information Internetworks
- **Coursework**: Advanced Analysis of Algorithms, Advanced Artificial Intelligence, Object-Oriented Programming, Objects & Software Design, Computer Organization, Database Systems, Computer Simulation and Modeling

TECHNICAL SKILLS

Languages: Python, JavaScript

Libraries / Frameworks: Node.js, Flask, FastAPI

Databases & Warehouses: MySQL, MongoDB, Redis, Databricks, Snowflake, Firebolt

Cloud: AWS (Step Functions, Lambda, EC2), SQS

WORK EXPERIENCE

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

Graduate Research Assistant (Python, Deep Learning)   *Feb 2025 – Present*

- Developing a web application to capture gaze patterns on digital ads and identify demographic patterns (age, gender) using heatmap clustering.

CommerceIQ   Bengaluru, India

Software Engineer II (Python, Java SpringBoot, Databricks, SQL, Snowflake, AWS, SQS)   *Aug 2021 – Aug 2024*

- **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.
- **Cold Start Recommendation Strategy**: Designed and deployed a synthetic data solution integrating sales and advertising performance data, delivering recommendations with 90% accuracy for clients without historical ad performance.
- **AWS-based Recommendation System**: Built a media budget recommendation pipeline with AWS Step Functions, SQS, Lambda, and 40 SQL modules, predicting ad spend with 95% accuracy and saving clients $200K annually while reducing processing time from 1 day to 3 minutes.
- **Sales Target Allocation SQL Module**: Implemented SQL-based logic to distribute annual sales targets across months with seasonality adjustments, enabling brands to monitor and achieve objectives effectively.
- **Amazon Advertising Campaign Platform**: Engineered a platform for creating and managing Amazon advertising campaigns, boosting user productivity and campaign effectiveness.
- **Automated Strategy Execution Pipeline for Criteo Ads**: Developed a real-time automation pipeline to optimize Criteo advertising campaigns, enhancing ad performance and operational efficiency.
- **Multi-Cluster Warehouse Simulation**: Simulated high-load multi-cluster environments in Snowflake to evaluate and optimize concurrency performance for dynamic SQL workloads.
- **Performance Monitoring Dashboards**: Crafted TP99 performance dashboards with New Relic, doubling transparency into page load times and accelerating bottleneck identification.
- **Custom SQL Migration Layer (Snowflake to Firebolt)**: Built an extensible migration framework reducing database migration time by 40% and benchmarking Firebolt against Snowflake.

OPEN SOURCE CONTRIBUTIONS

- **Firebolt Data Warehouse**: Developed a geospatial analytics dashboard that fetches accident datasets on a map; implemented connection pooling decreasing overall latency 50%.
- **BookGenomeProject.org**: Developed an XML parser for identifying page types in Internet Archive books and introduced additional stop-words for improved text cleanup.