Ishank Sharma

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SKILLS

Languages: Python, JavaScript, Java, SQL
Frameworks & Tools: FastAPI, Node.js, Java, LangChain, Google Agent Development Kit, Tensorflow, Pytorch
Databases: Snowflake, Databricks, PostgreSQL, MongoDB, Redis, ChromaDB
Cloud & DevOps: AWS (Lambda, SQS, Step Functions, EC2), Docker, GitHub Actions, Linux

PROFESSIONAL WORK EXPERIENCE

Full-Stack Engineer Intern: GrowthAlpha   May 2025 - July 2025
- Partnered with internal stakeholders to design and launch a **multi-tenant SaaS platform** from 0→1, including a custom JSON-to-SQL query generator that enabled real-time audience targeting and improved analytics responsiveness.
- Prototyped and benchmarked **Text-to-SQL systems** for clickhouse compatible SQL queries using LLaMA, OpenAI and Gemini APIs.

Open Source Contributor: Firebolt   Nov 2024 - Apr 2025
- Designed and owned a **geospatial analytics dashboard** integrating real-time accident datasets via REST APIs, enabling **interactive mapping + deep data exploration**.
- Optimized Firebolt DB query execution by introducing **connection pooling**, cutting query latency **boosting QPS by 85%**.
- Actively engaged with the open-source community and contributed performance enhancements adopted into production.

Software Development Engineer II CommerceIQ   Aug 2021 – Jul 2024
E-commerce intelligence platform optimizing retail media spend
- Collaborated with stakeholders in the US by traveling onsite with the engineering team to design, build, and launch an AI-powered deck generator feature, driving the project **from concept to production.**
- Built AWS-based media budget recommendation pipeline (Lambda, SQS, SQL), saving **$200K/year** and reducing manual processing from **1 day to 3 mins.**
- Developed cold-start recommender system strategy generating synthetic data to provide **90% accurate** ad budget suggestions without historical advertising data.
- Migrated budget prediction workloads from Snowflake to Databricks, reducing infra costs by **52%** and latency by **80%** via indexing and broadcast joins.
- Developed backend for real-time ad platform processing **50,000+ hourly events** shown to customers in near real time and helping drive advertising strategy during peak sales hours.
- Built a **state-machine–driven campaign orchestrator** to fetch and create real-time campaign data via Amazon/Walmart APIs; coupled with a real-time KPI system (**UI → API → SQS → DB**) that enabled instant campaign actions and ensured data consistency across platforms.
- Mentored 3 interns and 2 SDE-I on backend systems, pipelines, SQL optimization and best REST API practices.

Open Source Contributor: Internet Archive   May 2020 – Dec 2020
- Archive.org - Added support for zooming in/out with keyboard on safari browser, and increased test coverage.
- OpenLibrary.org - Added metadata to open library's index page for better search engine optimization.
- Bookgenomeproject.org - Added an XML parser to books present at Internet Archive that identifies page types. Also introduced more stop words for better text cleanup.
- BookReader - Built a demo feature for selecting text from images using mouse cursor.

PROJECTS

Ella (Effort Learning and Look up Assistant):   [(Github)]
Built a self-learning AI agent using retrieval-augmented generation and Google Agent Development Kit that converts slack chats into a living FAQ, streamlining engineering onboarding and reducing repeat questions by **70% within Slack.**

Mock Server: Provides front-end developers a zero-code backend for prototyping with CRUD, persistence, and advanced filters (search, sort, multi-entity).   [(Github)]

EDUCATION

CALIFORNIA STATE UNIVERSITY - LONG BEACH   Aug 2024 - Dec 2025
MS in Computer Science   GPA 3.8/4.0

RAMAIAH INSTITUTE OF TECHNOLOGY   Aug 2017 - May 2021
B.E Information Science & Engineering   GPA 8.52/10.0

ACHIEVEMENTS

Winners Smart India Hackathon (Team Avocado): National Hackathon with over 200,000+ Participants:
Built a Beats Allocation and Navigation System for Indian Police, won the grand prize.   [(Github)]

OTHER INTERESTS

Design Thinking | Open Source Contributions | Hiking & Stargazing