Sushmey Nirmal

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EDUCATION

University of Colorado, Boulder | Master of Science in Computer Science — May 2027
Coursework: Numerical Computation, Datacenter Scale Computing, Data Mining

VJTI, Mumbai | Bachelor of Technology in Information Technology — June 2023
Coursework: Database Systems, Data Structures and Algorithms, Machine Learning

SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript
Frameworks & Technologies: GCP, gRPC, Django, Flask, Angular, Express, NodeJS, Docker, LangChain
Databases: SQL Server, Hive, Dremio, MongoDB

EXPERIENCE

Wells Fargo — August 2023 – July 2025
Software Engineer — *Hyderabad, India*

- Designed and developed a data fetching platform using Dremio, exposed via internal APIs to support UI applications and bulk ETL workflows used by **40+ developers**.
- Improved data reliability by implementing schema validation and freshness checks, reducing stale data issues and increasing adoption across **24+ analytics and reporting teams**.
- Took ownership of a production data system, making design tradeoffs around schema evolution, validation logic, and performance under changing product requirements.
- Led a codebase standardization initiative within four weeks of joining by enforcing consistent naming conventions across **71% of the codebase**, significantly improving readability and maintainability.
- Worked with Java, Scala, Python, SQL, Django, Hive, Spark, Hadoop, Dremio

Barclays — June 2022 – August 2022
Software Engineering Intern — *Pune, India*

- Built an end-to-end Trade Feed File Generator using Angular and Java Spring Boot, reducing file generation time from **days to hours** and achieving a **96% optimization**.
- Implemented RESTful APIs to enable seamless communication between frontend workflows and backend services in a time-sensitive financial environment.
- Designed production-grade UI components in Figma and implemented them using proprietary Angular libraries aligned with internal design systems.
- Worked with Java, HTML/CSS, Angular, Bootstrap, Spring Boot, Apache Impala.

OPEN SOURCE EXPERIENCE

Zulip Terminal | Link — September 2022 – May 2024
Open Source Contributor

- Improved application stability by handling network timeouts and blocking unsupported text-based browsers, preventing runtime crashes.
- Enhanced user experience by implementing read receipts, message copy functionality, and clearer identity handling for users with identical usernames.
- Wrote and executed unit and integration tests, logged and resolved defects, and debugged runtime failures in production and open-source systems.

PROJECTS

BudgetIQ (Flask, GCP, RabbitMQ, GenerativeAI) Link

- Built a web app for analyzing credit card statements and generating spending insights using Flask and GCP services.
- Deployed serverless architecture on Cloud Run, integrated Cloud SQL for storage, and used Vertex AI (Gemini 2.5 Flash Lite) for transaction analysis.
- Implemented CI/CD with Cloud Build and GitHub Actions, and designed an intuitive frontend using Bootstrap, HTML, and CSS.

Long-Term Semantic Memory Engine (Pinecone, Flask, GenerativeAI) Link

- Built a persistent knowledge retrieval system that enables long-term semantic memory by embedding user documents and querying a vector database for concept-level similarity.
- Designed an ingestion pipeline with chunking, metadata enrichment, and hash-based deduplication to support scalable, idempotent storage of long-term user knowledge.

Better Call RAGs (LangChain, GenerativeAI) Link

- Developed an AI-powered legal assistant using Retrieval-Augmented Generation (RAG) architecture to enable natural language querying over the Cambridge Law Corpus.
- Engineered a summarization and Q&A system that delivers accurate, context-specific answers strictly grounded in the source corpus, enhancing reliability and eliminating hallucinations.