Sushmey Nirmal

United States | (303)-725-9945 | Linkedin | Sushmey.com | sushmeywork@gmail.com

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: Python, Java, SQL, JavaScript, TypeScript, GoLang, Scala, C++
Frameworks & Technologies: GCP, Spark, Django, Flask, Angular, Express, NodeJS, Docker, TensorFlow, LangChain
Databases: SQL Server, Hive, Dremio, MongoDB

EXPERIENCE

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

- Designed and developed a data fetching tool leveraging Dremio, enabling instantaneous data retrieval for UI-based applications and bulk extraction for ETL workflows used by **40+** developers.
- Improved data reliability by implementing validation checks and preventing stale or inconsistent data, enhancing trust and usability for **24+ analytics and reporting teams.**
- Initiated and executed a codebase transformation within 4 weeks of joining by implementing a standardized naming convention **across 71% of the codebase**, significantly enhancing code intuitiveness and readability.

Barclays — June 2022 – August 2022
SWE Intern — *Pune, India*

- Developed a user-friendly Trade Feed File Generator, reducing file generation time from **days to hours**, resulting in a **96% optimization.**
- Designed the UI with Figma using Barclays' font and colours, and implemented it using proprietary libraries with Angular.
- Enabled seamless communication between the Angular frontend and Java backend by implementing RESTful API using Spring Boot.

VOLUNTEER EXPERIENCE

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

- Improved application stability by handling network timeout events during connection loss and blocking text-based browsers, preventing crashes in the application.
- Enhanced user experience by adding read receipts and message copy functionality, increasing usability for end-users.
- Optimized UI/UX by introducing help text and unique identifiers for users with identical usernames, reducing user confusion and improving navigation clarity.

PyAMG | Link — May 2024 – June 2024
Open Source Contributor

- PyAMG is a library of Algebraic Multigrid (AMG) solvers with a convenient Python interface.
- Improved the accuracy of Gauss-Seidel iterations in the PyAMG library by developing a new function to apply the missing relaxation factor (omega) in the Successive-Over-Relaxation, enhancing solver correctness.

Stanford's CodeInPlace | Link — April 2024 – June 2024
Section Leader

- Facilitated small group meetings to teach Stanford's flagship Intro to Python course, CS106A.
- Provided personalized assistance to students, resulting in **over 70% increase** in course progress.

PROJECTS

Face Blur and Object Detection Pipeline (Python, OpenCV, YOLOv8) Link

- Developed an automated video anonymization tool that detects and blurs faces across video frames using YOLOv8 for real-time face localization and Gaussian blur for privacy preservation.
- Implemented frame-by-frame object detection and bounding box visualization to identify and label multiple object classes in still images.

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.