

# Sushmey Nirmal

United States | Github | LinkedIn | Sushmey.com | sushmeywork@gmail.com

## EDUCATION

- University of Colorado, Boulder** | Master of Science in Computer Science May 2027  
*Grader for Intro to Data Science with Probability and Statistics*
- 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:** Spark, Django, Flask, Angular, Express, NodeJS, Docker  
**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

- 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.
- HaikuBlog** (Flask, HTML/CSS, MySQL) [Link](#)
- Designed and developed a blog platform for creating and sharing Haikus, allowing users to create profiles.
  - Implemented a syntactic validation system to ensure Haikus met format requirements and integrated custom session-based login authentication, improving user experience and security.
- Greatest Chess Engine** (HTML/CSS, JavaScript) [Link](#)
- Developed an interactive chess engine with HTML/CSS and JS libraries, with Alpha-Beta pruning, optimizing the chess engine's performance, making it 10x faster.