Gaurav Mallya

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Education

University of California, Berkeley, *B.A. in Computer Science*   May 2024
- **Relevant Coursework**: Machine Learning, Artificial Intelligence, Operating Systems, Efficient Algorithms and Intractable Problems, Data Structures, Discrete Mathematics and Probability, Computer Architecture, Databases

Work Experience

Benchling, *Full-Stack Software Engineer*   Aug. 2024 - Jan. 2025
- Developed the front-end for search listings, detail pages, and Workflows UI improvements, spoke closely with product and design to meet requirements for a multi-million dollar ARR partnership deadline
- Spearheaded development to automatically map existing table data to a Workflows task table based on the source table type for over 1M+ tables using Typescript and Python
- Owned and implemented several cross-team initiatives to add data auditing for SOC2 compliance and access policies to ensure personas follow the principle of least privileges

Benchling, *Software Engineer Intern*   May 2023 - Aug. 2023
- Implemented chained routers within Workflows end-to-end to support multi-conditional AND/OR operations
- Developed Cypress tests to verify that automated mapping populates nodes when scientists execute tasks
- Created an API endpoint that duplicates existing Workflows task schemas to increase configurability

Tesla, *Software Engineer Intern*   Jan. 2022 - April 2022
- Built a feature to transfer containers across 6 different Material Flow System locations for vehicle assembly
- Developed and maintained global MySQL databases that store gigafactory-specific action variables
- Created essential APIs that are currently used in factory production to monitor supply inventory and have aided in increasing the number of new Tesla vehicles being manufactured from 960,000 to an estimated 1.4 million per year

UpSync Berkeley, *Project Manager, Senior Advisor*   Sept. 2020 - April 2022
- Implemented a web scraper UI for Captain.tv using Selenium to retrieve streamer information from social media
- Led a team of engineers to build an application with a serverless AWS backend and a React frontend for Burning Rock Biotech that places desired clinical trials from over 5000 trials daily into an accessible MongoDB database

Rimble, *Software Engineer Intern*   Oct. 2021 - March 2022
- Launched an AWS test environment that connects to a DynamoDB ML endpoint and enhances developer testing
- Developed mechanisms within our API Gateway to catch all inaccurate user API calls without disrupting the flow of information and returning back any necessary error-specific message to alert the user about any issues

Projects

End-to-End Encrypted File Sharing System, *Golang*   July 2022 - Aug. 2022
- Integrated cryptographic primitives to maintain message confidentiality and user integrity when sharing files
- Devised a tree structure to ensure that revoked user adversaries can not interact with previously accessible files

WordleJS, *JavaScript*   Feb. 2022 - June 2022
- Redesigned Wordle using native JavaScript and a Trie implementation to increase the efficiency of word detection

Bear Maps, *Java*   Oct. 2020 - Nov. 2020
- Formulated an AI in Java called the A* search algorithm solver to detect the nearest location relevant to a keyword

Stock Prediction Using Twitter Sentiment, *Python*   Feb. 2020 - May 2020
- Handled the Twitter and Tweepy API to collect over 100,000 tweets related to a given stock symbol
- Performed sentiment analysis using the TextBlob library and stored data within a SQL database
- Ran regressions on the structured data using Matplotlib, NumPy, and pandas

Technical Skills

Languages: Golang, Java, Python, TypeScript, HTML/CSS, C
Technologies: Django, AWS, Git, React, Linux