Gaurav Mallya

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EDUCATION

University of California, Berkeley   Berkeley, CA
Bachelor of Arts in Computer Science   *Aug. 2020 – May 2024*
Relevant Coursework: Efficient Algorithms and Intractable Problems, Structure and Interpretation of Computer Programs, Data Structures, Discrete Mathematics and Probability, Computer Security, Artificial Intelligence

PROGRAMMING SKILLS

Languages: Golang, Java, Python, JavaScript, HTML/CSS   **Technologies**: Django, AWS, Git, React, Linux

EXPERIENCE

Plate IQ   Emeryville, CA
Software Engineer Intern   *June 2022 - Present*
- Designing a Django rules validation engine to ensure processed invoices meet vendor group specifications

Tesla   Fremont, CA
Software Engineer Intern   *Jan. 2022 - April 2022*
- Resolved prevalent bugs in production and added new factory features to the Material Flow System application
  * Built a feature to transfer vehicle parts across different MFS locations for assembly and manufacturing
- Developed and maintained global MySQL databases to store gigafactory-specific key function variables
- Created essential APIs to monitor supply inventory and are currently used in the production of new Tesla cars

UpSync Berkeley   Berkeley, CA
Project Manager, Senior Advisor   *Sept. 2020 – April 2022*
- Implemented a web scraper UI to retrieve streamer information for gaming company **Captain.tv**
  * Utilized Python's Selenium library and facilitated a team of students who were new to programming
- Built an application with a serverless AWS backend and a React frontend for **Burning Rock Biotech**
  * Outputs desired clinical trials daily from a MongoDB database and headed a team of software developers

Rimble   Berkeley, CA
Software Engineer Intern   *Oct. 2021 – March 2022*
- Launched an AWS developer environment to connect the DynamoDB ML data endpoint with our lambda function
- Developed mechanisms within our API Gateway to catch inaccurate user API calls without disrupting the flow of information and also sending back any necessary error specific message to alert the user

Panoramic Computing   San Jose, CA
Software Engineer Intern   *May 2021 – June 2021*
- Added integration and unit tests using Golang to monitor the performance of our application's backend API handlers and ensure the site ran smoothly saving 10 hours of debugging per week
- Simulated login and sigh-up requests by storing accounts in an SQL database, ensuring that privacy and the functionality of each account remained such that no bugs were found in the database

PROJECTS

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

Spot The Difference   *June 2021 – Aug. 2021*
- Created a UI using the PyGame library to test the human response time in the classic game "Spot the Difference"

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

Stock Prediction Using Twitter Sentiment   *Feb. 2020 – May 2020*
- Implemented the Twitter and Tweepy API to collect over 100,000 tweets then analyzed the sentiment of each individual tweet using the TextBlob library and stored it within an SQL database
- Compared the collected sentiment with its corresponding stock price using Matplotlib, NumPy, and pandas