

Sujal Thomas Tatipelli

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EDUCATION

Bachelor of Engineering in Software Engineering, & Mathematics Minor

Jan 2019 - Dec 2022

San Jose State University, San Jose, CA

Electives: Machine Learning & BigData / Intro to Cyber Security / Mathematical Modelling / Autonomous Robotics

EXPERIENCE

Back-End Developer Intern, Pikky, Fremont, CA

May 2022 - Sep 2022

- Engineered a comprehensive data pipeline, leveraging ETL methodologies utilizing Python & SQL to ingest data from diverse sources into a centralized data warehouse, enhancing data accessibility & integrity.
- Devised & documented a robust data model for data warehouse, optimizing decision-making processes and establishing a data dictionary to streamline data management & governance.
- Innovated and deployed a data visualization dashboard leveraging Power BI & Redash, enabling stakeholders to interpret complex data effortlessly and make informed decisions.

PROJECT EXPERIENCE

Full-Stack Developer, SJSU

Sep 2022 - Dec 2022

- Transformed a Node.js app into a Spring MVC-based cashier's app with administrative login capability for Starbucks employees & in-store order processing functionality.
- Executed a scalable cloud deployment on Google Cloud Platform (GCP) with an external load balancer set up as an ingress for cashier's app.
- Incorporated MySQL DB & RabbitMQ as required cloud databases to support complex data transactions.
- Developed the Starbucks API for mobile app & storefront deployment, integrated with Kong API Gateway & secured with API Key Authentication.
- Managed entire project cycle, from requirement analysis & application design to deployment and performance testing, ensuring high-quality code and documentation shared on GitHub.
- Maintained a comprehensive project journal detailing weekly progress, challenges faced, and solutions implemented.

Back-End Developer, SJSU

Sep 2021 - May 2022

- Orchestrated a team of four in construction of a price comparison website, transforming a Figma prototype into a functional webpage, utilizing Node.js and React Native. The development process did not involve pre-existing APIs, and database was built organically from ground up.
- Employed the BeautifulSoup4 Python library to scrape over 50,000 records from 20 different retailer websites, capturing current inventory of sneakers and their latest prices. The gathered data was parsed, cleaned up, and stored to create a comprehensive database. Selenium was used for AI test automation across various user scenarios.
- Developed a custom RESTful API and integrated it with the IFTTT service, enabling website's features to be accessed by popular IoT home automation devices like Google Home and Alexa.

Back-End Developer, SJSU

Aug 2021 - Dec 2021

- Led a team of five to design and create an interactive activity tracker application. Delegated responsibilities, designed the UI interface using Flutter.
- Integrated: firebase authentication API, firebase database, profile management and leaderboard functionality, and web-store deployment.

VOLUNTEER

Tech Lead, Google Student Developer Club @SJSU

Jan 2021 - Jan 2022

- Demonstrated leadership & adaptability as the Tech Lead for the Google Student Developer Club, organizing educational workshops and transitioning club activities to Discord during pandemic.

SKILLS

Java, Python, Javascript, HTML, CSS SQL, Matlab, R, React, Flutter, Flask, Django, Docker, Kubernetes, Google Cloud Platform, Amazon Web Services, Shell/Bash, Figma, Git, Spring Boot, PowerBI, Tableau