Sujal Thomas Tatipelli

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EXPERIENCE

Back-End Developer Intern
Pikky   **February 2023 - May 2023, Fremont, CA**

· Expertly executed ETL processes using Python and SQL, achieving a centralized data integration system that enhanced data integrity and accessibility by 40%.

· Skillfully designed and documented a comprehensive data warehouse schema, which streamlined data management processes and improved decision-making efficiency by 25%.

· Developed a user-centric dashboard utilizing Power BI & Redash, which simplified complex data interpretation, increasing stakeholder engagement by 30%.

PROJECTS

Popost - Media Flow
https://popost.vercel.app/ · September 2023 - November 2023

· Developed Popost by leveraging technologies like React, Node.js, Next.js, and MongoDB. Integrated OpenAI's GPT-3.5 with LangChain for enhanced content generation & implemented NextAuth for secure OAuth authentication. Also pioneered dynamic, RESTful API design incorporating SerpAPI, optimizing data management & SEO.

· Innovated in Popost by enabling users to upload videos and Loom recordings, employing AI models for content analysis & instructive voice-over generation. This significantly improved the creation of detailed, guided content for various videos.

· Designed Popost's interface to facilitate the effortless generation and sharing of visually appealing, current-event-based social media content, simultaneously ensuring platform robustness and the security of user data.

Job Jolt - Cover Letter Generator
https://job-jolt.vercel.app/ · June 2023 -August 2023

· Developed a React Chrome extension along with a Flask web app that utilizes OpenAI to generate the perfect cover letter specific to a job listing in under 20 seconds (The quickest in the market).

· The web extension injects elements when on the LinkedIn jobs page, allowing users to extract, sanitize, organize & send a secure API request to the backend server in just one click.

· Implemented key security features including API key validation, token-based authentication, & req rate limiting.

· Utilized Flask-Mail for email operations, bcrypt for secure password hashing, and SQLAlchemy for database & user management.

Azucar - Coffee Store App
Enterprise Softwares @ SJSU · September 2022 - December 2022

· Engineered a Spring Boot-based cashier application featuring administrative login for barista employees and in-store order processing capabilities.

· Leveraged GCP for cloud deployment, configuring an external load balancer as an ingress for the cashier application.

· Integrated Cloud MySQL db & RabbitMQ to facilitate the messaging queue.

· Crafted a custom API for mobile app & storefront deployments, fortified with Kong API Gateway & secured via API Key Authentication.

EDUCATION

Bachelor of Engineering, Software Engineering
Minor in Mathematics · San Jose State University · San Jose, CA · 2022

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

INVOLVEMENT

Tech Lead
San Jose State University · Google Student Developer Club · September 2020 - December 2021

· Conducted monthly workshops on Google products such as Flutter, Kotlin, and Google Cloud Platform; managed promotional activities; achieved a 12% monthly growth rate and an 80% student retention rate.

SKILLS

Java, Python, Javascript, R, SQL, Matlab, Shell, HTML, Tailwind CSS, React, Node, Next JS, Bun, Flask, Django, Spring Boot, Docker, Kubernetes, GCP, AWS, OpenAI, Zapier, Redis, PandasAI, Tableau, PowerBI, Redash, Jira, Figma, Maven, LangChain.