Shriyash Sadanand Patil

Fullerton, CA | (510) 377-2256 | shriyash81@gmail.com | LinkedIn | GitHub

Summary

I'm a graduate student pursuing a Master's in Software Engineering, skilled in Python and JavaScript, and experienced in front-end and back-end development. My interests lie in software development, machine learning, and full-stack development, and I've worked on projects involving predictive modeling and NLP applications. I'm keen on creating impactful software solutions, always eager to learn, and enjoy working together with others.

Education

California State University Fullerton | *Master's in Software Engineering* **|** GPA: 3.6 — Expected Graduation Dec 2024

Savitribai Phule Pune University | *Bachelor of Engineering, Computer Engineering* **|** GPA: 3.8 — Spring 2022

Skills

Programming Languages : Python, C++, JavaScript, HTML, CSS

Frameworks and Libraries : React, Next.js, Flask, NumPy, Pandas, Scikit-learn, ExpressJS, AngularJS, Langchain, Streamlit

Collaboration Tool : Git, GitHub, Jira

Database Systems : Firebase, MySQL, PostgreSQL, MongoDB, ChromaDB **| OS**: Linux, windows

Developer Tools : Agile methodologies, React API, REST API, VS Code, PyCharm, Android Development

Virtualization : AWS, VM Ware Workstation

Web Technologies : Node.js, JSON, Selenium WebDriver **| Machine Learning**: Llama3.1, ML, Scikit-learn

Personal Projects

Finance Tracker Web App | *Next.Js, Tailwind CSS, Firebase, React API* **|** GitHub — Fall 2024

- Built a secure finance tracker web app for managing expenses and providing financial insights, using **Next.js 13**, **Tailwind CSS**, and **Firebase** for real-time management and user authentication.
- Implemented expense and income tracking features and **Chart.js** visualizations for dynamic expense statistics and reusable models. Applied **Tailwind CSS** for a responsive design
- Leveraged **React Context API** and **Firebase Firestore** for efficient state management and data handling. and incorporated **Toastify** for real-time web notifications, enhancing user experience and interaction.

AI Cold Email Generator | *Llama 3.1, ChromaDB, Langchain, Streamlit, Python* | GitHub — Fall 2024

- Built a cold email generator using **Llama 3.1** and **Streamlit**, automating the extraction of job requirements from client portals and generating tailored cold emails to improve sales outreach for software services.
- Used **ChromaDB** for storing and retrieving portfolio data, allowing personalized email content based on job descriptions and client needs with fast query response times.
- Integrated **LangChain** for data extraction and processing, developing an interactive UI with Streamlit to easily input job URLs and automated **LLM**-powered email generation.

Selenium-Based Automated Testing for Odoo | *Selenium Web drivers, Python, PyCharm, Git* | GitHub — Spring 2024

- Engineered **Selenium WebDriver** scripts to automate end-to-end testing for **Odoo's** open-source module, increasing test coverage by over 60%, and designed **Python unit tests** focusing on regression and integration.
- Utilized **Git** for version control and **PyCharm** for development, debugging, and code profiling, enhancing the efficiency and reliability of automated tests.

Covid-19 Future Forecasting with ML | *Python, NumPy, Pandas, Sci-kit Learn, Chatterbot, ML* **|** GitHub — Spring 2022

- Analyzed **Python** and **ML algorithms and linear regression** to make a 95% predictive model for COVID-19 cases, yielding data-driven insights.
- Conducted **time-series analysis** for 100% accuracy in prediction with a team and applied **feature engineering** techniques.
- Accomplished a **Chatbot** for real-time assistance, offering users interactive access to **projected data** with a 30% decrease in customer service.

Twitter Sentiment Analysis | *Python, Twitter API, Word2Vec, CNNs, and RNNs* **|** GitHub — Fall 2021

- Processed and cleaned 31,962 tweets using NLP techniques, enhancing data quality by removing noise such as Twitter handles, punctuation, and special characters, addressing consistency and missing values, and improving analysis.
- Utilized **Bag-of-Words and TF-IDF** methods to convert text data into numerical features, resulting in practical sentiment analysis and hate speech detection—leveraged libraries like **Pandas, including Word2Vec,** for feature representation.
- Integrated Convolutional Neural Networks (**CNNs**) and Recurrent Neural Networks (**RNNs**) to preprocess and analyze tweets thoroughly.

Work Experience

Prime Technologies | *InplantTrainee - Embedded Systems Engineer* | *Mumbai, India* — Dec 2017 - June 2018

- Assembled hardware components with microcontrollers to create gear-measuring machines, improving precision by 92%.
- Identified and fixed technical issues in gear measuring machines, refining protocols to reduce errors by 90%.
- Integrate C++ code into microcontroller systems for gear measuring machines, boosting 55% efficiency.

Larsen & Toubro | *Implant Trainee- Digital Electronics Engineering Intern* | *Mumbai, India* — June 2016 – Nov 2016

- Collaborated closely with a design and development team to fulfill user-specific **data requirements**, delivering customized solutions for **Miniature Circuit Breakers** (MCB).
- **Automated hardware installation** and testing process to **cut down testing time** by 30% and increase speed to market of products; involved in design and development of **software products**.
- Achieved switchgear solutions, ensuring 100% reduced overload incidents, elevating machine reliability and functionality.