

SHRIYASH SADANAND PATIL

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SUMMARY

Passionate recent graduate with a master's degree in software engineering, having a strong foundation in Python, JavaScript, AI, and Machine Learning. With hands-on experience in developing full-stack applications and implementing predictive modeling and NLP solutions, ready to seize opportunities in software development and testing that will further enhance my skills and drive impactful contributions to innovative projects.

EDUCATION

California State University Fullerton | *Master's in Software Engineering* | **GPA: 3.68**

Dec 2024

Savitribai Phule Pune University | *Bachelor of Computer Engineering* | **GPA: 3.8**

May 2022

Mumbai University | *Diploma in Digital Electronics* | **CGPA: 7.5**

Jan 2019

SKILLS

Programming Languages	: Python, Java, C++, JavaScript, HTML, CSS
Frameworks and Libraries	: React, Next.js, Flask, NumPy, Pandas, Scikit-learn
Databases	: Firebase, MySQL, PostgreSQL, MongoDB, ChromaDB
Tools	: Git, GitHub, Jira, VS Code, PyCharm, Selenium
Cloud & Virtualization	: AWS, VM Ware Workstation
Web Technologies	: Node.js, REST APIs, JSON, React APIs
Machine Learning	: Predictive Modeling, NLP, Sentiment Analysis, Time-Series Forecasting

WORK EXPERIENCE

Software Engineer I | Inventech Industries | Mumbai, India

July 2022 – June 2023

- Designed and developed **dynamic, responsive web pages** using **React.js**, and **Node.js**, enhancing user experience and improving front-end performance by **20%** through efficient code optimization and reusable component design.
- Collaborated with cross-functional teams to optimize **NoSQL** database and server-side logic, reducing API response times by **25%** and significantly enhancing application reliability and user satisfaction.
- Integrated **REST APIs** and conducted end-to-end testing, achieving **95%** integration test coverage and ensuring seamless deployment stability and efficiency across multiple platforms.

Intern - Embedded System Engineer | Prime Technologies | 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.

Intern- Digital Electronics Engineer | Larsen & Toubro | Mumbai, India

June 2016 – Nov 2016

- Collaborated with design and development teams to deliver customized solutions for Miniature Circuit Breakers (MCB), meeting user-specific data requirements.
- Automated hardware installation and testing processes, reducing testing time by **30%** and accelerating product speed to market.
- Designed switchgear solutions that eliminated **100%** of overload incidents, enhancing machine reliability and functionality.

PERSONAL PROJECTS

AI Finance Tracker Web App | *Next.js, Tailwind CSS, Firebase, React API* | [Project Link](#) | [GitHub](#)

Aug 2024 - Dec 2024

- Developed a secure finance tracker using Next.js 13, Tailwind CSS, and Firebase Firestore, enabling real-time income/expense tracking and dynamic data visualizations with Chart.js.
- Built a RAG-powered chatbot using Chatling AI, allowing users to interact with the app, ask questions about financial analysis.
- Improved user engagement by **25%** and reduced data load times by **40%** through efficient state management with React Context API and secure user authentication with Firebase, ensuring a seamless and scalable user experience.

AI Cold Email Generator | *Llama 3.1, ChromaDB, Langchain, Streamlit, Python* | [GitHub](#)

Aug 2024 - Dec 2024

- Built an **AI-powered cold email generator** using **Llama 3.1** and **Langchain**, automating the extraction of job requirements and generating personalized emails for sales outreach with high relevance.
- Utilized **ChromaDB** for storing and retrieving portfolio data, enabling fast query responses and tailored email content based on job descriptions and client needs.

Selenium Based Automated Testing from Odoo | *Selenium Web drivers, Python, PyCharm, Git* | [GitHub](#)

Jan 2024 – March 2024

- Engineered **Selenium WebDriver** script to automate E2E testing, increasing test coverage by over **60%** from Odoo's open-source module. Implemented Python unit tests utilizing the unit test framework, focusing on regression and integration testing.
- Leveraged Git for version control and utilized PyCharm for development, debugging, and code profiling within a VM Workstation environment, enhancing the efficiency and reliability of automated tests.

Covid-19 Future Forecasting with ML / *Python, NumPy, Pandas, Sci-kit Learn, Chatterbot, ML* | [GitHub](#)

Sep2021-May2022

- 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 and applied feature engineering techniques.
- Built a **Chatbot** for real-time user interaction, offering projected data and reducing customer service inquiries by **30%**.

Twitter Sentiment Analysis / *Python, Twitter API, Word2Vec, CNNs, and RNNs* | [GitHub](#)

Aug 2021-Dec 2021

- Processed and cleaned **31,962** tweets using NLP techniques, improving data quality for sentiment analysis and hate speech detection.
- Applied Bag-of-Words and TF-IDF methods to convert text into numerical features, leveraging libraries like Pandas and Word2Vec for efficient analysis.