Vedant Patel
Software Engineer

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• Website • LinkedIn • GitHub

A highly motivated and technically skilled software developer with experience in mobile development, web development, and machine learning. Proficient in various programming languages, frameworks, and tools, with a strong focus on delivering high-quality software solutions.

Proficiencies

- Programming & Databases: Java, Python, C/C++, SQL (PostgreSQL, MySQL)
- Frameworks & Libraries: Spring Boot, ReactJS, Flask, FastAPI, Pandas, Scikit-learn
- Full-Stack & Mobile: Web Development, Flutter (Android & iOS)
- DevOps & Tools: Git, Docker, Google Colab, IntelliJ IDEA, VS Code, PyCharm
- Testing & Performance: JUnit, Selenium, Apache JMeter
- Core Competencies: REST APIs, Microservices, OOP, Design Patterns, Cloud Deployment, Agile

Software & Applications

Airline Delay Prediction (PySpark, Pandas, Scikit-learn, Machine Learning, Data Engineering)

- Built a scalable ML pipeline on 539K+ U.S. flight records using PySpark and Pandas for data cleaning, encoding, and scaling.
- Performed EDA with Seaborn/Matplotlib, uncovering delay trends, correlations, and seasonality patterns.
- Trained and tuned classification models (Random Forest, Decision Tree, Perceptron), achieving 85% accuracy.

BlogNest Application(Java, Spring Boot, ReactJS, Tailwind CSS, PostgreSQL, JWT, REST APIs, CI/CD, Agile, Testing (Selenium, JMeter)

- Developed a scalable Spring Boot + ReactJS blogging app with modular design patterns for secure and maintainable architecture.
- Implemented JWT-secured REST APIs with PostgreSQL for users, posts, comments, and tags, and built a responsive UI with React + Tailwind CSS.
- Enhanced reliability with unit tests, Selenium automation, and JMeter performance testing, achieving >95% test coverage.
- Automated deployments using CI/CD pipelines (GitHub Actions, Heroku) with full architecture documentation.

Professional Experience

OpenQQuantify – (Remote)   Software Developer Intern | Aug 2025

- Contributing to the development of AI/ML-powered platforms, integrating electronics with healthcare and open-source intelligence applications.
- Assisting in building and integrating OSINT tools for multi-source signal collection, analysis, and pattern recognition.
- Supporting the design and maintenance of scalable databases and data pipelines for efficient data processing and retrieval.
- Implementing AI/ML workflows in media platforms to enhance automation and generative AI applications.
- Collaborating with cross-functional teams on technical documentation, demos, and press releases to promote open-source initiatives.

Wiz Developers – Vadodara, GJ   Software Intern | Jan 2023 to May 2023

- Assisted in developing a Flutter-based payment app, achieving a 99.8% crash-free rate across Android and iOS.
- Delivered 20+ features and bug fixes in Agile sprints, contributing to a 15% user base growth.
- Integrated Firebase for real-time sync and secure authentication, reducing login errors by 25% and improving app reliability.
- Enhanced UI/UX design with Figma, leading to a 30% increase in user satisfaction from client feedback.

Vinrox Technologies LLP – Vadodara, GJ   Electronics Intern | May 2022 to July 2022

- Designed and tested 3 PCB layouts and 5+ circuit prototypes for wireless communication, achieving 0 QA errors and meeting performance targets.
- Collaborated with senior engineers to troubleshoot 10+ technical issues, boosting communication system efficiency by 22%.
- Simulated and analyzed circuits in LTSpice, reducing design iteration time by 40% and improving overall system reliability.

Education & Credentials

Master of Science in Computer and Information Science
University of Michigan, Dearborn | Aug 2023 – Apr 2025

Bachelor of Technology in Electronics and Communication
Charusat University | Aug 2019 – May 2023