Viraj Patel

United States | 848-234-4310 | patelviraj0170@gmail.com | linkedin/virajpatel10 | github/virajpatel10

EDUCATION

Syracuse University — Expected May 2025
Master of Science in Computer Science — GPA - 3.96/4

Nirma University — Jul 2019 - Jun 2023
Bachelor of Technology in Computer Science — GPA - 3.70/4

SKILLS

Concepts : Data Structure, Algorithms, Object Oriented Programming, Database Management, Operating System, System Design, Scrum, Agile, SDLC, Cloud, Artificial Intelligence, Machine Learning, CI/CD, Linux
Programming Language : C, Python, Java, JavaScript, SQL, HTML, PHP, C++, XML
Databases: MySQL, MongoDB, PostgreSQL, NoSQL
Backend & Frameworks : Django, JSON, Node.js, PyTorch, Pyspark, Tensorflow, Flask, Keras, React, Bootstrap
DevOps & Cloud: AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, CI/CD, GitHub
Research : Explainable Artificial Intelligence(AI) for Industry 5.0: Vision, Architecture, and Potential Directions

EXPERIENCE

Graduate Assistant — Jul 2024 - Present
EECS, Syracuse University — Syracuse, NY

- Designed **30+ problem sets** in collaboration with the professor, enabling students to practice and receive feedback via Git.
- Led **20+ weekly tutorial** sessions to strengthen students **problem-solving**, **algorithmic** thinking skills through exercises.
- Streamlined the evaluation for assignments and exams by applying **Agile methodologies**, ensuring efficiency and consistency.

Software Developer Intern — Jan 2023 - Jul 2023
Oracle — Hyderabad, India

- Designed backend solutions for Global Business Unit teams, assessing 100+ projects, **reducing response time by 35%** by resolving issues and maintaining system efficiency using **Python**, **REST API**, and **JSON**.
- Evaluated and reported the performance of **100+ macros**, improving system efficiency through JQL queries, Git, and Excel.
- Built Python scripts leveraging data structures and algorithms to automate testing for plug-ins and macros, **reducing manual workload by 80%** and validating 100+ Confluence pages and 70+ Jira tickets.

Research Assistant — Jan 2022 - Dec 2022
Nirma University — Ahmedabad, India

- Engineered an Eye Gaze Estimation model with Python, TensorFlow, and Keras, **achieving 88% precision** in predicting X-Y screen coordinates using deep learning techniques.
- Improved eye-tracking accuracy by refining deep learning architectures, **reducing angular error to 3 degrees,** by feature extraction across various lighting conditions and head positions using **System Design and JSON**.

PROJECTS

Finbot | *Python, Django, NLP, Data Analysis, LSTM, ETL, Docker, JavaScript, MySQL* — Jul 2024 - Sep 2024

- Developed an AI-powered financial assistant to **track 100+ stocks and mutual funds, integrating real-time insights** and **personalized recommendations through a chatbot** for enhanced investment decision-making.
- Increased **processing efficiency by 40%** by automating **data ingestion and transformation for 50+ data sources** using ETL workflows, fetching real-time financial data from REST APIs, and deploying scalable solutions in Docker.

Spendwise | *Python, Django, Git, Microservices, SDLC, Scrum, OOP, Postgres* — Jan 2024 - Jun 2024

- Built a finance management application **supporting 50+ currencies**, integrating real-time financial APIs while ensuring modularity through **object-oriented design, system architecture**, and **5+ UML diagrams**.
- Improved financial tracking accuracy by building interactive dashboards with data analysis and microservices architecture, **reducing management time by 30%** using Git and Scrum methodologies.

EcomEclips | *PHP, MySQL, System Design, Rest API, HTML, CSS* — Jul 2023 - Dec 2023

- Developed a **B2C and C2C** platform with an end-to-end product and order management system using **PHP and MySQL**, enabling real-time order tracking and efficient inventory stock updates.
- Enhanced user accessibility by implementing authentication and search functionalities with **REST APIs, HTML, and CSS**, ensuring seamless product navigation and an optimized user experience.