

Viraj Patel

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EDUCATION

Syracuse University

Master of Science in Computer Science

Expected May 2025

GPA - 3.96/4

Nirma University

Bachelor of Technology in Computer Science

Jul 2019 - Jun 2023

GPA - 3.70/4

SKILLS / CERTIFICATION

Concepts : Data Structure, Algorithm, 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, Springboot, 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

Teaching Assistant

EECS, Syracuse University

Jul 2024 - Present

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 Development Intern

Oracle

Jan 2023 - Jul 2023

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

Nirma University

Jan 2022 - Dec 2022

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.
- Optimized model performance and ensured seamless real-time deployment by fine-tuning with **Git, CI/CD, and TensorFlow**.
- Improved eye-tracking accuracy by refining deep learning architectures, **reducing angular error to 3 degrees**, and improving 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.