Vignesh Pakkam Saravanan

GitHub | LinkedIn | Website | Email | +1 (857) 746-9776

Summary

Experienced Software Test Engineer with 2+ years in automation framework development and cloud technologies, currently pursuing Master's in Computer Science.

Education

Master of Science in Computer Science — Jan 2025 - present
Northeastern University, Boston, MA

Bachelor's Degree in Computer Science and Engineering — 2018 - 2022
Amrita Vishwa Vidhyapeetham, TN, India — (GPA: 8.49/10)

Work Experience

Test Engineer, AppViewX — Aug 2022 - Jul 2024

- Led the development of am automation framework, which reduced manual efforts to near zero.
- Worked closely with cutting-edge technologies such as Kubernetes, Jenkins, and Docker.
- Gained hands-on experience in digital certificates, cloud services such as AWS, Azure, and expertise in networking areas such as Public Key Infrastructure (PKI), certificate lifecycle, and load balancers.

Test Intern, AppViewX — Feb 2022 - Aug 2022

- Gained a deep understanding of load balancers, virtual servers, and server offloading.
- Gained hands-on experience on a variety of load balancers, switch, routers, firewalls, HSM, etc.
- Developed automation framework using vendor API for load balancers and integrated with product.
- Gained valuable insights on public key infrastructure, routing, virtual IP, CDN

Projects

Finance Tracker System — Feb 2025 - Apr 2025
Designed and implemented a full-stack financial management system using Python, Flask, MySQL, JavaScript, HTML/CSS, and Bootstrap. The application automated key financial processes including transactions, budgeting, loans, and goal tracking, resulting in improved user efficiency for personal financial management.

Air Pollution Trajectory Detection — Aug 2021 - Nov 2021
Led a 4-person team to develop a Machine Learning model using Python and Pandas for predicting the trajectory of air pollutants based on AQI (Air Quality Index) values. The project successfully created a predictive system capable of identifying pollution sources and trajectories, enabling proactive measures to address air quality issues before they escalate.

Face Mask Detection System — Jun 2021
Developed an individual cloud-hosted web application using JavaScript, HTML, CSS, Google Compute Engine, and Cloud AutoML Vision API. The project involved training a custom model with Google's AutoML Vision to accurately classify images based on face mask detection, creating an automated system for identifying compliance with mask-wearing requirements.

Renewable Energy Monitoring System — Aug 2020 - Nov 2020
Developed a web application using ReactJS, NodeJS, and MySQL to enable remote monitoring of energy systems and visualize performance metrics. The system provided real-time insights into renewable energy infrastructure, allowing users to track system efficiency and performance through an intuitive web-based interface.

Technical Skills

Languages	Java, JavaScript, Python, C/C++, HTML, CSS
Frameworks	React, Express, Node, Springboot, Robot, Flask
Databases and Services	MongoDB, MySQL, AWS, Google Cloud, Azure
Tools	Git, Docker, Jenkins, Kubernetes, Postman, REST API