Vijeth G. Patil

vijethgpatil@gmail.com ❖ (602) 706-8337 ❖ LinkedIn ❖ GitHub ❖ Portfolio

EDUCATION

Arizona State University, Tempe, AZ   MS, Information Technology (GPA: 3.96)

KLE Technological University   BE, Electrical and Computer Engineering (GPA: 3.4)

SKILLS

- **Languages and Databases:** Python, Java, JavaScript, TypeScript, SQL(PostgreSQL, MySQL), MongoDB, REST APIs
- **Test Automation & Methodologies:** Selenium, Playwright, Appium, Pytest, TestNG, JMeter, Postman, Pact, k6, Agile/Scrum, Page Object Model (POM), Data-Driven Testing, Performance, Security, Contract & Reliability Testing
- **DevOps, Cloud and Tools:** AWS, Azure, Jenkins, Docker, Kubernetes, Git, GitHub Actions, Jira, Azure DevOps

WORK EXPERIENCE

Advanced App Engineering Associate   Sept. 2021 – Dec. 2023
Accenture | Bengaluru, India

- **Architected** and implemented a scalable, data-driven test automation framework using Selenium and TestNG, which reduced manual regression testing efforts by **30%** for a high-traffic enterprise HRM application.
- **Spearheaded** the creation of comprehensive test strategies for functional and regression testing cycles, leading to a **20%** increase in pre-production defect detection and enhancing overall release quality.
- **Led** performance and load testing initiatives using JMeter, simulating peak user loads to identify and resolve critical system bottlenecks, resulting in a **40%** improvement in application response time.
- **Engineered** an automated API testing suite with Postman and REST Assured for a complex microservices architecture, improving service reliability by **35%** and ensuring data integrity across dozens of critical endpoints.
- **Championed** the integration of automated testing into the CI/CD pipeline using Jenkins, which reduced deployment-related failures by **25%** and significantly accelerated the feedback loop for development teams.

Software Development Intern   Aug. 2020 - May 2021
Pequrel Microelectronic| Hubballi, India

- **Developed and deployed** an intelligent traffic management system that dynamically adjusted signal timing based on real-time vehicle density, cutting average intersection wait times by up to **25%**.
- **Implemented and optimized** a YOLOv3-based computer vision model for live vehicle tracking, achieving **95%** detection accuracy in variable lighting and weather conditions.
- **Created** custom Python scripts to process and analyze traffic flow data, providing key performance metrics that validated the system's effectiveness and informed future optimizations.

PROJECTS

- **TestOps Nexus - Unified CI/CD Quality Platform**
  - **Architected** a multi-layered test automation framework in Java and TestNG, integrating UI (**Selenium**), API (**RestAssured**), and performance (**JMeter**) tests into a single, cohesive CI/CD pipeline using GitHub Actions.
  - **Reduced** regression suite execution time by **60%** through thread-safe parallel execution (ThreadLocal) and enabled comprehensive data-driven testing using custom TestNG listeners and Excel integration.
- **QualityShield - Proactive DevSecOps Testing Pipeline**
  - **Engineered** a "shift-left" DevSecOps pipeline using **Playwright** and GitHub Actions to provide immediate feedback on UI, API, and performance quality for a containerized Express.js application.
  - **Integrated Pact** for consumer-driven contract testing to prevent breaking API changes and embedded an **OWASP ZAP** scan to automatically block deployments with critical security vulnerabilities.
- **Mobile Assurance Framework - Comprehensive Android Test Suite**
  - **Engineered** a complete mobile test automation framework from the ground up using Python, **Appium,** and Pytest, establishing a robust Page Object Model (POM) for maximum scalability and maintainability.
  - **Authored** a diverse suite of over 20 tests covering functional, edge case, and **non-functional** (performance, accessibility, reliability) scenarios, ensuring comprehensive app validation