

Vishnu Vaishnavi Maddilate

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EDUCATION

University at Buffalo, SUNY

Master of Science in Computer Science, CGPA - 3.92/4.0

Buffalo, NY, USA

Aug. 2023 – Dec. 2024 (Expected)

SASTRA University

Bachelor of Technology in Electrical and Electronics Engineering, CGPA - 3.7/4.0

Thanjavur, India

Aug. 2016 – May 2020

EXPERIENCE

University at Buffalo

Graduate Teaching Assistant

Buffalo, NY, USA

Aug. 2024 – Dec. 2024

- Organizing course material creation, design assignments, evaluating exams/projects, and assist with database concepts like normalization, query optimization, and advanced SQL.
- Mentoring and guiding 50 students through projects and offering assistance during office hours.

Temenos

Product Engineer

Bangalore, India

July 2022 – July 2023

- Introduced and designed a **Karate BDD Automation Framework** using **Cucumber** and **Gherkin** for **API automation**, streamlining payment transaction flow testing and increasing automation coverage by 80%.
- Conducted comprehensive verification for transaction functionality on **SWIFT**, **SEPA**, domestic, and cross-border payments, ensuring accurate detection of **alerts** based on profile conditions improving detection accuracy by 30%. Integrated a private **watchlist** to enhance **fraud detection**, meeting client-specific requirements.
- Managed **regression analysis**, identified script failures and bugs, and integrated automated scripts into **Jenkins pipelines**, reducing bugs by 60% and ensuring smooth test execution across client versions.
- Worked along with developers and business analysts to discuss requirements, created **test plan**, and provided insights throughout the **SDLC**, ensuring early issue detection and a 55% reduction in project delays.

Test Engineer

Oct. 2020 – July 2022

- Automated web test cases using **Selenium WebDriver** and **Java**, reducing manual testing efforts by 70% and providing detailed **regression reports** via **TestNG** to improve overall testing efficiency.
- Tested and automated Suspicious Activity Reports (SAR) with **Karate BDD** and **Cucumber**, ensuring compliance, resolving critical defects in risk calculation and **fraud detection profiles**, reducing defects by 40%.
- Deployed testing applications on cloud platforms like **Microsoft Azure**, ensuring scalability and reliability.
- Utilized **Shell**, **Python**, and **PowerShell** to execute **CRUD operations** on **MS SQL Server** and **PostgreSQL**, improving maintenance efficiency by 75% while enhancing the test execution process.
- Executed comprehensive **API testing** using **Postman**, addressing 50+ critical defects, and executed **database testing** on **PostgreSQL**, **MSSQL**, and **Oracle**, leading to a 20% improvement in data integrity.

PROJECTS

eCommerce Cypress Automation | GitHub Project

Jan. 2024 – Mar. 2024

- Engineered a **Cypress** automation framework for end-to-end web testing, incorporating custom commands, assertions, alert handling, drag-and-drop, and data-driven testing, achieving a 50% increase in test coverage.
- Designed **data-driven test cases** using **JSON**, implemented **Page Object Model (POM)**, integrated failure capture with screenshot/videos, and optimized test consistency, reducing failures by 40%.

Mobile Automation Testing with Appium

Aug. 2023 – Nov. 2023

- Constructed a mobile automation framework with **Appium** and **Java**, automating functional and regression tests for **Android** and **iOS** apps on **emulators**, boosting testing efficiency by 60%.
- Integrated **TestNG** for reporting, optimized **locator strategies (XPath, ID, class)**, and leveraged Appium's capabilities for device-specific gestures and cross-platform testing, amplifying test coverage by 50%.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, HTML, CSS

Frameworks: Bootstrap, NodeJS, ExpressJS, React, Pytorch, Selenium WebDriver, Cypress, Appium, Karate, Cucumber, REST Assured, JUnit, TestNG, BDD Framework, NumPy, Pandas

Developer Tools: Git, GitHub, BitBucket, Android Studio, AWS, Docker, CI/CD, Linux, Maven, JSON, Jira, Agile, Postman, Payment Gateways, AntiMoney laundering, Fraud Detection.

Databases: SQL, MySQL, PostgreSQL, Snowflake, NoSQL, MongoDB **Testing:** Regression Testing, Functional Testing, Integration Testing, Financial Transactions testing, Database Testing, API Testing, Mobile Testing

AWARDS & ACHIEVEMENTS

- Outstanding Teamwork Award at Temenos**
- Leadership and Project Success Award at Temenos**