

SAI KRISHNA MOVVA JAYA

Arlington, Texas | +1 737 342 7588 | www.linkedin.com/in/saikrishnamovvajaya/ | mjsaikrishna7@gmail.com

PROFESSIONAL SUMMARY

Passionate about ensuring software quality through testing, maintenance, and identifying security vulnerabilities. With dual master's degrees in information and network security and computer science, and nearly 4 years of software engineering experience, I excel in delivering secure and reliable software solutions.

ACADEMIC QUALIFICATIONS

Master's in Computer and Information Science University of Texas at Arlington	2023-2025
Master's in Information and Network Security (Thesis): University of Limerick, Ireland	2018-2019
Bachelor of Engineering in Computer Science SJB Institute of Technology, Bangalore, India	2013-2017

WORK EXPERIENCE

[UNIVERSITY OF TEXAS, ARLINGTON](#) - ARLINGTON, TX, USA

GRADUATE RESEARCH ASSISTANT, Office of Transition Programs & Services: Mar 2024-Present

- Supervising a team of up to six Transition Support Liaisons (TSL's) and work in collaboration with the office of Outreach & Engagement.
- Developing python scripts using pandas and openpyxl to efficiently parse and process large datasets from Excel sheets.

[DELL TECHNOLOGIES](#) - CORK, IRELAND

SOFTWARE ENGINEER: 2019-2023

- Designed and developed software for platforms, peripherals, applications, and diagnostics.
- Focused on automation of the Dell storage product PowerMax by developing plugins, writing python scripts, ruby scripts, bash files.
- Led test planning, designed 150 detailed test cases, and coordinated with teams, reducing 50 defects, improving 200 test cases in coverage.
- Verified storage array infrastructure functionality, including system initialization, component replacement, environmental behavior, inter-director communications, cache operations, remote connectivity, data recovery, and system resiliency, prior to the release of new products and software updates.
- Conducted Functional, Load, E2E, Data-Driven, and Cross Browser Testing, executing 200 test cases and resolving 74 critical issues.
- Implemented Page Object Design Patterns, Pytest fixtures, and Log4j reporting, reducing maintenance by 20 hours/week, increasing coverage by 100 test cases, and decreasing execution time by 2 hours per suite.
- Led automation testing for Windows network firewall using Pywinauto, enhancing test efficiency and accuracy.
- Led the design of enterprise storage environment that includes enterprise storage arrays, fiber channel switches, Network Attached Storage (NAS), physical and virtual tape devices, as well as storage management and backup, restore, archive and replication solutions.
- Experienced with SAS, SATA, and SSD technologies and I/O protocol (Fibre Channel, SAS, iSCSI) and disk array products as well as Server's hardware components troubleshooting.
- Created an ELK stack for dynamic data collection from these PowerMax systems, improving configuration visibility.
- Achieved Python readability and provided mentoring in code reviews, resulting in improved code push times.

INDEPENDENT PROJECTS

[Musiqi\(React.js, JavaScript, Html, CSS, Shazam API, Jmeter, Postman, Selenium, PyTest, Python, Jenkins, Git\)](#) [\(LINK\)](#)

- Developed a web music player using React.js and the Shazam API, enabling users to search and stream music with high accuracy.
- Led the integration of JMeter for performance testing, ensuring scalability and robustness

[Sneaky \(React.js, JavaScript, Html, CSS, Firebase, Python, PyTest, Selenium, Jira, Git, Jenkins\)](#) [\(LINK\)](#)

- Developed a website application that allows customers to buy and sell vintage/rare sneakers.
- Developed a robust PyTest automation framework for comprehensive website quality assurance.

[AI Image Generator \(React.js, JavaScript, Html, CSS, OpenAi API\)](#) [\(LINK\)](#)

- Built a webapp, integrating OpenAI services to generate images from user descriptions, showcasing AI and intuitive web interface synergy.

[Application of Deep Learning on Music Genre Classification \(CNN, LSTM, Deep Learning, Python, TensorFlow\)](#) [\(Master's Thesis\)](#)

- Classified music into five genres by extracting features using the Python library Librosa.
- Implemented and trained deep neural networks on the dataset with TensorFlow and Keras for accurate genre classification.

KEY SKILLS AND COMPETENCIES

- Programming Languages:** Python, C++, PHP, JavaScript
- Testing:** API Testing & Validation, Security Testing & Vulnerability Assessment, Performance testing, Test Planning&Strategy, JMeter, Postman
- Automation Framework/Tools:** Selenium, Cypress, Mocha, Pytest, PyWinAuto, Cucumber, BDD Framework (Behave)
- Penetration Testing:** Metasploit, Nmap, Nikito, Sqlmap
- Security Tools:** Wireshark, Defender, Burp Suite, Fiddler, Log Analysis, Azure Fundamentals
- Cloud Technologies:** AWS EC2, S3, Microsoft Azure
- Database:** SQL, NoSQL
- Web Tools:** HTML, CSS, Rest API, React.js, Redux
- Software Management:** Agile, Scrum, Jira
- Tools:** Jenkins, Git, Docker, Ansible, Putty, WinSCP, JFrog Artifactory

CERTIFIED COURSES

- API Automation Testing with Python & BDD Framework, certified by Udemy
- Selenium WebDriver with Python from Scratch + frameworks certified by Udemy