

# SAI KRISHNA MOVVA JAYA

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

## WORK EXPERIENCE

### UNIVERSITY OF TEXAS, ARLINGTON - ARLINGTON, TX, USA

#### GRADUATE 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.
- Assisting in the research and development of engaging topics and conversations to assist students in their transition post orientation.
- Developing python scripts using pandas and openpyxl to efficiently parse and process large datasets from Excel sheets.
- Assisting with the recruitment, selection, training, and development of TSL's.

### 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.
- 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.
- Managed 15-20 builds/week by downloading artifacts from JFrog, deploying to 10 environments, and validating features with 50-60 test cases/build.
- 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.

### UNIVERSITY OF LIMERICK - LIMERICK, IRELAND

#### SYSTEM ADMINISTRATOR:

2018-2019

- Installed, configured, and administered both hardware and software systems, ensuring optimal performance and minimal downtime in a high-demand environment also implementing encryption and antivirus.
- Implemented strong security protocols, safeguarding data, and network integrity.
- Thoroughly controlled software and hardware configurations for VPN, network settings, GPU's, printers, and Logical Volume Manager.
- Efficiently cleared over 40 client tickets by offering both remote and on-site technical assistance through troubleshooting.

## 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)
- 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