SAI KRISHNA MOVVA JAYA

737-342-7588 | mjsaikrishna7@gmail.com | [linkedin](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Master of Science in Computer and Information Science | **University of Texas at Arlington** | 3.91 GPA **Aug 2023 - May 2025**

Master of Engineering in Information and Network Security | *University of Limerick, Ireland* | 3.9 GPA **Aug 2018 - Sep 2019**

Bachelor of Engineering in Computer Science | *SJB Institute of Technology, Bangalore, India* | 3.8 GPA **Aug 2013 - Feb 2018**

SKILLS

- **Software Development Methodologies:** Agile (Scrum, Kanban), Waterfall
- **Project Management & Collaboration Tools:** Jira, Confluence, Trello
- **Programming Languages:** Python, C#, Java, JavaScript, SQL, PHP
- **Backend Development:** Django, ASP.NET Core
- **Frontend Development:** React.js, HTML, CSS, TailwindCSS
- **Database & Caching:** MySQL, Microsoft SQL Server, Redis, DynamoDB
- **Test and Automation Tools:** PyTest, Selenium, Appium, Cypress, Load Testing (Jmeter, k6), Postman
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, RDS, IAM), CloudFormation, Azure
- **DevOps & CI/CD:** Docker, Terraform, Kubernetes, Jenkins, GitHub, Ansible, Prometheus, Grafana

EXPERIENCE

SOFTWARE ENGINEER

Dell Technologies – Cork, Ireland   **Nov 2019 – Jun 2023**

- Led automation development for the Juniper project, developing 70+ Python and Selenium scripts using Page object model (POM) to support the migration from Legacy Symmwin to Simplified Symmwin, reducing testing time by 35%.
- Directed automation testing efforts for the Laurel project, achieving a 30% defect resolution improvement using Python and SmartBuilder for critical test case automation.
- Led a team of 4 engineers to develop an internal React.js dashboard for real-time server and VMware VM monitoring, integrating REST APIs, SQL Server, and vSphere API, streamlining resource management for the SIS team, and improving efficiency by 30%.
- Led regression and qualification testing, identifying 35% more defects before production release.
- Orchestrated and deployed test automation containers on a Kubernetes cluster within a VMware VM, leveraging PowerMax storage to execute performance and regression tests for Online Code Load (OCL) on Simplified Symmwin, improving test efficiency by 35%.
- Designed and implemented automated scripts to modify Windows firewall settings, enhancing security compliance across 200+ systems.
- Optimized system reliability by 35%, reducing code review times by 20%, and resolving 100+ network issues using Wireshark.
- Developed an automation script utilizing Python, OpenCV, and OCR (Tesseract) to analyze live camera feeds of PowerMax storage racks, detecting green and red LED indicators to determine system status, reducing manual inspection time by 80%.
- Designed and implemented a web scraping pipeline using Selenium, BeautifulSoup, and Requests, automating data extraction from internal dashboards, improving data collection efficiency by 60% for system monitoring and reporting.
- Configured and managed 50+ VMware VMs, reducing test environment setup time by 40%.
- Developed and executed automation scripts, improving regression testing speed by 20% and managing lab infrastructure with Ansible and VMware.
- Managed Dell server firmware using Postman and Python, optimizing OS configurations across 50+ servers to improve reliability by 35%.
- Utilized Python libraries (Netifaces, Pywinauto) to automate network and UI interactions, reducing configuration time by 50%.
- Performed root cause analysis for critical bugs, contributing to a 20% increase in overall system stability.
- Conducted 20+ knowledge transfer sessions on coding best practices and automation principles, enhancing cross-platform team efficiency by 30% and reducing onboarding time for new engineers by 25%.

RESEARCHER/GTA

University of Texas at Arlington   **Mar 2024 – Present**

- Designed & implemented feedback forms using Entity Framework and Razor pages, increasing collection rates by 30%.
- Built RESTful APIs within the application, facilitating seamless data exchange, and improving integration capabilities by 45%.
- Configured routing in ASP.NET Core MVC to optimize navigation, resulting in a 20% reduction in page load times.
- Applied dependency injection throughout the application, promoting code reusability and reducing module coupling by 25%.
- Deliver lectures on software engineering, covering SDLC models, agile methodologies, and Jira for project management.

CERTIFICATIONS

- **AWS Cloud Practitioner**   **Feb 2025**
- **AWS Solutions Architect (Ongoing)**   **Mar 2025**