SAI KRISHNA MOVVA JAYA

Open to relocation | 737-342-7588 | mjsaikrishna7@gmail.com | linkedin | GitHub | Portfolio

EDUCATION

Master of Science in Computer and Information Science	*University of Texas at Arlington*	**Aug 2023 - May 2025**
Master of Engineering in Information and Network Security	*University of Limerick, Ireland*	**Aug 2018 - Sep 2019**
Bachelor of Engineering in Computer Science	*SJB Institute of Technology, Bangalore, India*	**Aug 2013 - Feb 2018**

SKILLS

- **Software Development:** Agile (Scrum); Jira, Confluence
- **Languages & Backend:** Python, C#, JavaScript, SQL, ASP.NET Core MVC, REST API
- **Frontend Development:** React.js, HTML, TailwindCSS
- **Database & Caching:** MySQL, Microsoft SQL Server, Redis, Database Design
- **Test and Automation Tools:** PyTest, Selenium, Cypress, Load Testing (Jmeter), Postman
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, RDS, IAM, Glue, SQS, SNS, ECS, Kinesis), Azure, CloudFormation, Cloud Systems
- **DevOps & CI/CD:** Docker, Terraform, Kubernetes, Linux, Jenkins, GitHub, Ansible
- **Systems & Networking:** TCP/IP, HTTP/S, FTP, SSH, Storage Systems, Distributed Systems

EXPERIENCE

RESEARCHER/GTA

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

- Developed and optimized feedback forms in ASP.NET Core MVC with Entity Framework and Razor pages, increasing collection rates by 30% and enhancing user centric application performance.
- Designed RESTful APIs to facilitate seamless data exchange and bolster integration capabilities by 45%, contributing to scalable and reliable services.
- Configured efficient routing in ASP.NET Core MVC to minimize page load times by 20%, thus improving overall system responsiveness.
- Implemented dependency injection across the application, promoting code reusability and reducing module coupling by 25% for robust software design.
- Deliver lectures on software engineering, covering SDLC models, agile methodologies, and Jira for project management.

LEAD SOFTWARE ENGINEER

Dell Technologies – Cork, Ireland   **Jan 2022 – Jun 2023**

- Directed automation development for the Juniper project by crafting 70+ Python and Selenium scripts using the Page Object Model, reducing testing time by 35% and supporting continuous integration.
- Managed critical test case automation for the Laurel project utilizing SmartBuilder and Python based plugins, achieving a 30% improvement in defect resolution, and ensuring high quality software delivery.
- Supervised 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 the vSphere API to enhance resource management efficacy by 30%.
- Conducted regression and qualification testing to identify 35% more defects before production release, bolstering system reliability.
- Orchestrated the deployment of test automation containers on a Kubernetes cluster within a VMware environment, leveraging PowerMax storage to enhance test efficiency by 35%.
- Created automated scripts to modify Windows firewall settings, bolstering security compliance across 200+ systems.
- Optimized overall system reliability by reducing code review times by 20% and resolving 100+ network issues with Wireshark, demonstrating strong technical leadership, network troubleshooting and CI/CD pipeline support.

SOFTWARE ENGINEER

Dell Technologies – Cork, Ireland   **Nov 2019 –Jan 2022**

- Pioneered 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%.
- Performed root cause analysis for critical bugs, contributing to a 20% increase in overall system stability.

CERTIFICATIONS

- **AWS Cloud Practitioner**   **Feb 2025**