

SAI SRINIVAS VEERANADHAM

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EDUCATION

TEXAS A&M UNIVERSITY, College-Station, TX

Aug 2024 - Dec 2025

Master of Engineering in Engineering with specialization in Cybersecurity

GPA: 4.0/4.0

Courses: Cybersecurity Risk, Cybersecurity Law & Policy, Software Reverse Engineering, Digital forensics and Incident Response, Malware Analysis, Software Reverse Engineering

AMRITA SCHOOL OF COMPUTING, Bengaluru, Karnataka

Aug 2018 - Aug 2022

Bachelor of Technology, Computer Science and Engineering,

GPA: 3.2/4.0

Courses: Cloud Computing, Network Security, Operating Systems, Algorithms, Database management systems.

WORK EXPERIENCE

Texas A&M, College - Station

Student Technician | Cyber Physical Resilient Energy Systems (CYPRES) Project

Feb 2025 - Present

- Engineered automated security monitoring scripts using Python and Bash, reducing incident response times by 50% and strengthening compliance enforcement in cyber-physical testbeds.
- Developed and deployed WAF and DLP policies protecting over 15 applications, reducing threat exposure by an estimated 30% and enhancing compliance with internal security standards.
- Provisioned and scaled 5+ virtual machines to support the Common Open Research Emulator (CORE), improving simulation performance by 25% and enabling reliable testing for over 10 network research scenarios.
- Automated the installation and deployment of network security tools (Snort, Nmap, ELK stack) using Jenkins pipelines, reducing manual setup time by 70% and enabling consistent rollouts across multiple environments.

PricewaterhouseCoopers, Bengaluru

Aug 2022 - Aug 2024

Cyber Security Analyst | DevOps Engineer | Full - Time

- Designed CI/CD pipelines with Jenkins, Terraform, Docker, and Kubernetes, cutting deployment time by 40%. Integrated DAST (Checkmarx) and SAST (SonarQube) for continuous detection of dynamic and static vulnerabilities.
- Implemented and deployed 30+ Kubernetes manifest files to manage containerized workloads across 4 clusters, implementing RBAC, NetworkPolicies, and PodSecurityStandards to harden security posture and reduce misconfiguration-related incidents by 60%.
- Enabled IaC security checks by integrating Checkov, Checkmarx, and Snyk into Jenkins/GitHub Actions workflows, detecting and remediating 100+ high-risk issues pre-deployment and minimizing configuration drift across Terraform and Kubernetes clusters.

PricewaterhouseCoopers, Bengaluru

Jan 2022 - July 2022

Associate | Intern

- Integrated Burp Suite scans into Jenkins pipelines using Python, cutting manual testing by 70% and tripling vulnerability detection across microservices.
- Created 20+ SQL queries and Grafana dashboards enabling real-time visualization of security metrics and incident trends.
- Orchestrated real-time credential rotation across 15 microservices using Vault and Kubernetes webhooks, reducing secret exposure by 95%.

PROJECTS

Malicious URL detection using lexical analysis

- Improved detection accuracy by 20% by analyzing 1M+ URLs, leveraging Python (Pandas, NumPy) and Scikit-learn to extract 15+ key features. Enhanced model performance through feature engineering, SMOTE-based balancing, and hyperparameter tuning.
- Achieved 95% detection rate with reduced false positives by optimizing AdaBoost, Naive Bayes, and Logistic Regression using grid search and cross-validation.

Sign Language Detection

- Achieved 92% accuracy in sign language recognition using Decision Trees, K-NN, and K-Means on 10,000+ images. Optimized real-time recognition with OpenCV and SVM, reducing latency by 15% and improving precision by 10%.

Cyber Security Incident Response Simulator

- Built a Splunk-driven simulation platform integrating real-time threat feeds with historical logs, enabling faster detection workflows and reducing MTTR through dynamic attack scenario testing.

TECHNICAL SKILLS

- Programming Languages:** Python, Java, JavaScript/TypeScript, C, Shell, Bash.
- DevOps:** Docker, Kubernetes, Jenkins, ArgoCD, AWS CodePipeline, GitHub Actions, Terraform, Ansible.
- Security Tools:** BurpSuite, Ghidra, Metasploit, NMAP, Wireshark, OWASP ZAP, SonarQube, Trivy, Nessus, Fortify.
- Systems and Networking:** Windows, Linux, DNS, DHCP, Routing Protocols, VPNs, Subnetting, OSI Model.
- Databases:** MySQL, MongoDB, Postgres, NoSQL, Snowflake, DynamoDB.
- Certifications:** CompTia Security +, AWS Cloud practitioner, Azure Administrator Microsoft-2023, Terraform Associate, Hashicorp-2023; ISO 27001 Lead Auditor, Threat Modeling, Incident Response and Risk analysis.

LEADERSHIP / EXTRACURRICULAR

- Awarded PwC's Star&r twice for exceptional client engagement and mastery in security incident reporting, significantly improving project outcomes. Created an educational simulation game to teach secure coding practices and stock market concepts.
- Led as Executive at ACE Club, driving cybersecurity innovation and collaboration. Contributed to environmental and social initiatives, including tree plantation drives and revitalizing government schools for enhanced learning environments.