

Sriharsha Dokula

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PROFILE SUMMARY

Full Stack Developer with 4.5+ years of experience specializing in Python development, cloud infrastructure automation, and DevOps practices. Proven expertise in building scalable backend services, automating cloud deployments, and implementing infrastructure as code solutions. Strong background in cloud platforms (AWS, Azure), containerization (Docker), and configuration management (Ansible), with extensive Python scripting experience for automation and operational efficiency.

PROFESSIONAL EXPERIENCE

Zapcom.ai, Fullstack Developer | TX, USA

March 2025 — Present

- Architected and deployed cloud infrastructure using Python automation scripts, implementing infrastructure as code practices for scalable and reproducible deployments across AWS environments.
- Built AI pipelines using Azure ML Studio with Python, enabling automated model training, experimentation, and deployment workflows for enterprise use cases.
- Secured and migrated a compromised production website to a modern cloud-based architecture, implementing infrastructure hardening using AWS WAF, access controls, and infrastructure best practices with automated deployment pipelines.

SUNY Binghamton, Research Assistant | NY, USA

July 2024 — March 2025

- Assisted in comprehensive literature review, meticulously gathering and analyzing relevant information.
- Conducted detailed and extensive code reviews across multiple programming languages and design styles to understand engineering requirements, utilizing tools like Git and VS Code.
- Contributing to the development and enhancement of the Tensor-Aware Energy Accounting framework for machine learning.

Cognizant, Software Developer | Bengaluru, India

July 2019 — December 2021

- Spearheaded the design, development, and testing of Python automation scripts and REST APIs, significantly reducing manual workload by 85% and improving operational efficiency in Privileged Identity Management (PIM) solutions.
- Automated infrastructure deployment and configuration management using Ansible playbooks and Python scripts, streamlining deployment processes and reducing setup time by 60%.
- Implemented automated workflows utilizing Python and REST APIs, replacing 14 manual maintenance workflows, resulting in significant time and cost savings through infrastructure automation.
- Conceptualized and executed innovative Proof of Concepts (POCs) on CyberArk components, including Enterprise Password Vault (EPV), Application Access Manager (AAM), and Privileged Threat Analytics (PTA), validating their effectiveness and suitability within the organizational context, which eventually led to the adaptation of AAM.
- Utilized Splunk integration for automatic monitoring and automation of daily onboarding of users and accounts to CyberArk, enhancing operational workflows and reducing manual intervention.
- Authored comprehensive documentation outlining post-production technical support procedures, contributing to a 95% decrease in resolution time for post-production technical issues.
- Mentored and trained over 100 interns on CyberArk, ensuring smooth onboarding and fostering a culture of continuous learning and professional development.

Cognizant, Program Analyst | Bengaluru, India

January 2019 — June 2019

- Developed Python-based automation solutions for infrastructure management and monitoring, optimizing operational efficiency and reducing manual effort.
- Implemented automated reporting tool using Python to detect vulnerable systems, providing visualized data for actionable insights across a network of over 10,000 edge nodes.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, C, Java

Cloud & DevOps: AWS, Azure, Ansible, Docker

Databases: SQL, PL/SQL, MongoDB

Tools & OS: Git, Linux, Visual Studio Code, Jupyter Notebook, Vim, CI/CD pipelines

Additional: PowerShell, bash scripting, REST APIs, Infrastructure as Code (IaC), Configuration Management

IAM tools: CyberArk(Vault, CPM, PSM, PVWA, AAM) and Okta

Certifications: CompTIA Security+ (certified in 2018), CyberArk Certified Trustee, GitHub Foundations.

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science - (CGPA: 3.9/4.00)

January 2023 - May 2024

Relevant Coursework: Design & Analysis Computer Algorithm, Computer Architecture & Organizations, Operating Systems, Programming Languages, Database Systems, Hardware and Security Systems, Design Patterns

PROJECTS AND CONTRIBUTIONS

jcarbon [Java | TensorFlow]

jcarbon is a Java library that provides an application-level view of Intel-Linux system consumption.

draw [HTML | JavaScript]

Built a browser-based replica of Google's Quick, Draw! using public datasets and lightweight models optimized for in-browser performance.