

# Siddha Mehta

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## Technical Experience

### CSS Student Lab Assistant, University of Washington

Apr. 2025 - Present

- Creating automation scripts using Ansible for setting up labs.
- Providing technical support to faculties and students.

### Security Engineer, Ataloud Technologies

Apr. 2024 - Aug. 2024

- Created a repository of automation scripts for tasks such as backup and update. Also developed scripts for automated creation of CI-CD pipelines for projects, these scripts created the pipelines in Jenkins with SAST, DAST and dependency scanning, also deployed the environment for it based on the requirements.
- Provided support, managed incident response and mitigation for both on-premises and cloud environments.

### Associate Cloud Security Engineer, Ataloud Technologies

Aug. 2023 - Apr. 2024

- Created a vulnerability assessment tool for networks with diverse endpoints which helped resolve vulnerable points in the network and also helped the pre-sales team to boost sales by 20% based on the VA report generated using this tool. The tool is deployed using a VM image in data centers, the VM was custom Ubuntu image.
- Designed a Cloud Security Posture Management (CSPM) tool for continuous compliance and automated remediation of cloud infrastructure, it was a part of another tool being developed for automated cloud environment management.
- Designed a Python application to leverage AWS KMS for encrypting and decrypting large CSV files, enabling secure sharing via S3 across multiple AWS accounts.
- Developed security focused CI/CD pipelines using different tools integrating them into existing cloud deployments. Created optimized shift left CI-CD pipelines by leveraging AWS EFS and ECS which reduced the cost by 50% and delivery time by 30%.
- Secured cloud environments with firewalls, hardware security modules from vendors including Check Point and Thales.

### Cloud Engineer Intern, Ataloud Technologies

Feb. 2023 - Aug. 2023

- Provided technical assistance and support for AWS cloud services. Collaborated with cross-functional teams to implement cloud security measures. Assisted in monitoring and optimizing cloud infrastructure for performance and compliance.
- Utilized vendor solutions, such as Check Point, created secure architectures with the vendor solutions for clients.

### Cybersecurity Research Intern, Hack-X Security

Aug. 2021 - Feb. 2022

- Researched security vulnerabilities and tools for the development of a training platform. Developed a Capture The Flag (CTF) website with vulnerabilities which was going to be used in the training platform.

## Education

### Master of Science in Cybersecurity Engineering

Aug. 2026

University of Washington

### Bachelor of Technology in Computer Science and Engineering with Honors in Security and Privacy

Jul. 2023

Symbiosis Institute of Technology

### Diploma in Computer Engineering

Nov. 2020

MIT Polytechnic

## Projects

### Smart Street Light System

Mar. 2022

Internet of Things, ThingSpeak, Arduino

- Street light system that is energy efficient and smart, using LORA as communication technology.
- Led a group of 3 teammates, designed the circuit and developed the code for LoRa communication between the street light and the central gateway for sending data such as battery level and light bulb status. Also uploaded the data to Firebase for storage and future analysis purposes.

### Smart Irrigation System | Published Research Paper in IEEE Xplore

Nov. 2022

Internet of Things, Machine Learning - Classification, Python

- Smart irrigation system designed to minimize water wastage while irrigating crops.
- Led a group of 3 teammates, designed the circuit and developed the algorithm for efficiently irrigating the crops with an accuracy of 71%. The algorithm was optimized enough to be able to execute on a Raspberry 3b plus.

### Call Detail Record and Internet Protocol Detail Record Analysis | Published Research Paper in Springer

Nov. 2022

Machine Learning - Clustering, Big Data, Python

- Algorithm to analyze CDR and IPDR data for anomaly prediction.
- Worked in a team of 4, developed the python program for the pseudo dataset creation and also developed the program for interactive graphs used for visualizing the data.

## Certifications

### Developing Secure Software (LFD121)

Feb. 2024

The Linux Foundation

### Certified Ethical Hacker Version 10 (CEH v10)

Jun. 2020

EC - Council

## Technical Skills

- Computer Networking and Security, Internet of Things (IoT)
- AWS, Google Cloud, Azure, Cloud Security, DevSecOps
- Sonarqube, Dependency Check, OWASP ZAP, HCL APPscan, Nuclei
- CheckPoint CloudGuard and Firewall
- C, C++, Linux development, Python, Java, HTML/CSS, JavaScript, Bash, Powershell