Roshan Ravindran

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TECHNICAL SKILLS

Programming Languages	:	Python, JavaScript, BASH, Java
Security Tools	:	BurpSuite, Wireshark
Platform	:	Linux, AWS, Kubernetes, Github, VSCode

TECHNICAL EXPERIENCE

Cloud Engineer Intern   *June 2024 – Sept 2024*
Vosyn   *Toronto, ON*

- Gained hands-on experience with AWS architecture, Docker, ECS, and container orchestration
- Implemented and maintained GitHub Actions for CI/CD pipelines, automating testing, building, and deployment processes.
- Provisioned and manage AWS infrastructure, including Lambda, EC2, ECR, ECS, and S3, to support the pipeline's development and maintenance.
- Configure Flask endpoints for the MLOps pipeline using AWS ECS, ECR, Docker, and GitHub Actions.

Teaching Assistant   *Sept 2023 – May 2024*
Simon Fraser University   *Burnaby, BC*

- Effectively communicate complex technical concepts to undergraduate students in a clear and understandable manner during weekly session.
- Serve as a mentor to guide students through challenging topics in 'Data Communications and Networking' as well as 'Cryptography and Cryptographic Protocols'.

TECHNICAL PROJECTS

Implementing CIS Security Benchmarks for Amazon AWS Services with Automation   Sept 2024 – Dec 2024

- ***Tech stack: AWS Config, Security Hub, CloudFormation, Lambda***
- **Implemented** CIS v1.4.0 Security Benchmarks within AWS Organizations to secure a multi-account, multi-region environment.
- **Audited** security configurations and automated remediation for AWS services including IAM, Config, CloudTrail, CloudWatch, SNS, S3, EC2, and VPC.
- **Developed** AWS Lambda functions to perform real-time auto-remediation of non-compliant resources using Security Hub findings and EventBridge rules for automated triggering.
- **Designed and deployed** an IAM role creation pipeline via CloudFormation templates, enabling cross-account access with trust policies for Lambda-based remediation actions.
- **Automated** the deployment of AWS Config rules and aggregators to enforce and monitor compliance across all organizational accounts and regions.
- **Streamlined** incident response workflows by designing custom actions in AWS Security Hub to invoke remediation workflows via EventBridge in a multi-account setup.
- **Achieved** a compliance score improvement **from 16% to 77%** by successfully remediating **30 security controls**, meeting organizational compliance standards.

EDUCATION

Master of Cybersecurity   *Sept 2023 – Dec 2024*
Simon Fraser University   *Burnaby, BC*
Notable Courses : Applied Cryptography, Distributed & Cloud systems, Enterprise Security, Cloud & Network Security

Bachelor of Technology in Computer Science and Engineering   *June 2019 – July 2023*
Amrita Vishwa Vidyapeetham University   *Chennai, India*