Roshan Ravindran

📞 +1 - 6045189511 | ✉ itsroshanr@gmail.com | 📍 Coquitlam, BC

in linkedin.com/in/roshan-ravindran | ⌗ github.com/Roshan-Ravindran | 🔗 roshan-ravindran.github.io

TECHNICAL SKILLS

Programming Languages	:	Python, JavaScript, Java, BASH shell scripting
Web Development	:	NodeJS, HTML, CSS, PHP, SQL
Security Tools	:	BurpSuite, Wireshark
Tools	:	Docker, Terraform, Ansible, Helm, Argo CD
Platform	:	Linux, AWS, Kubernetes, Github, VSCode

TECHNICAL EXPERIENCE

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

- Gained hands-on experience with AWS architecture, ECS, Github Actions and Docker container orchestration
- Provisioned and managed AWS resources, including Lambda, EC2, ECR, ECS, and S3, to support the pipeline's development and maintenance.
- Reduced deployment time by 40% by automating Flask API deployment on AWS ECS with Docker and GitHub Actions CI/CD pipeline, enabling faster iteration cycles for the ML pipeline.

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.
- **Achieved** a compliance score improvement from **16% to 77%** by successfully remediating **30 security controls**, meeting organizational compliance standards.

Kubernetes Cluster Setup and Management in Home Lab   Jan 2025 – Present

- ***Tech Stack: Kubernetes, Linux, Kubeadm, K9S, ArgoCD, Weave CNI***
- **Configured** a Kubernetes cluster from scratch using kubeadm on a home lab setup with Ubuntu VMs, featuring 1 master node and 2 worker nodes.
- **Implemented** a data analytics pipeline to collect real-time metrics from my portfolio website and process it within my Kubernetes cluster, improving observability.
- **Integrated PostgreSQL as the backend** for efficient data storage and retrieval, enhancing query performance for analytics insights.

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA) - Demonstrated expertise in managing, deploying, and troubleshooting Kubernetes clusters in production environments.
- Google Cloud Fundamentals for AWS Professionals- Google Cloud concepts, comparing its computing, storage, and management services to AWS through videos and hands-on labs.
- Introduction to Git and GitHub (Coursera) - Repository management, Version control, Git, Forking, Conflict resolution

EDUCATION

Master of Cybersecurity   *Sept 2023 – Dec 2024*
Simon Fraser University   *Burnaby, BC*
Notable Courses : 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*