Roshan Ravindran

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TECHNICAL SKILLS

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

TECHNICAL EXPERIENCE

Cloud Engineer Intern   *June 2024 – Sept 2024*
Vosyn (Startup)   *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.
- Participated in daily scrum meetings, sprint planning, and retrospectives, contributing to effective project management and team collaboration.

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.
- **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 2024 – April 2024

- *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 networking solutions** by installing and configuring Weave CNI for seamless pod-to-pod communication.
- **Set up GitOps workflows** by integrating Argo CD for continuous deployment, enabling automated application updates in the cluster.

COURSES & CERTIFICATIONS

- Certified Kubernetes Administrator (CKA) - Currently pursuing.

EDUCATION

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

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