

Karthik Saligram

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About Me

As a DevOps Engineer with a strong focus on AWS, I specialize in deploying and managing scalable applications in cloud environments. I have experience with running containerized applications in Kubernetes, creating CI/CD build pipelines and setting up monitoring and reporting tools. With a commitment to optimizing workflows and leveraging cloud technologies, I aim to drive operational excellence and deliver robust solutions.

Skills

Python, Javascript, Bash, SQL, AWS, Azure, Docker, Virtual Networks, IaC(Terraform), Jenkins, Github Actions, Gitlab, React, Vue, Express, ASP.NET

AWS

Route53, EKS, ECR, Lambda, Eventbridge, S3, SES, CloudWatch, CloudFront, Certificate Manager

Certifications and Achievements

- AWS Solutions Architect Associate (SAA)
- SCRUM Fundamentals Certified
- Led a team of 3 to secure 3rd place in the Discover Technata cloud innovation hackathon in Ottawa

Experience

Developer

IMUTech

Ottawa, ON

February 2023 – Present

- Developed front-end components for the company website using Vue.js and Adonis, improving user interface and functionality
- Reduced page load time by 50% through implementation of Lazy Loading techniques, enhancing overall user experience
- Implemented CI/CD pipelines using Jenkins and GitHub Actions, reducing deployment time and improving code quality

SIEM Engineer

Algoma Children's Hospital

Ottawa, ON

September 2023

- Engineered a comprehensive Security Information and Event Management (SIEM) tool using WAZUH, pfSense, and Suricata
- Implemented real-time log analysis and threat detection capabilities
- Integrated pfSense firewall for network segmentation and Suricata for intrusion detection and prevention
- Attracted interest from a startup for potential acquisition, demonstrating the tool's market value and innovation

Cloud Projects

Self-Directed Learning

Ottawa, ON

June 2023 – Present

- Developed and containerized a web application using Docker, deployed to AWS EKS using Helm charts
- Configured auto-scaling and high availability with pod replicas across multiple nodes
- Implemented container monitoring using CloudWatch insights for metrics and log collection
- Created an automated CloudWatch alarm reporting system using Lambda, EventBridge, and SES
- Designed and implemented a CI/CD pipeline using Jenkins for static website deployment
- Utilized AWS services (S3, CloudFront, Route53) and Terraform for infrastructure provisioning

Full Stack Developer

Manipal Hospital

Manipal, India

September 2021 – September 2022

- Developed a web application for professor ratings using ASP.NET and SQL, increasing website engagement
- Implemented user authentication and authorization features, ensuring data privacy and security for 10,000+ users
- Greatly reduced database query execution time by creating indexes and optimizing SQL stored procedures

Education

Post Graduate Certificate in Cloud Computing

George Brown College

Toronto, ON

Jan 2024 – Dec 2024

Post Graduate Certificate in Cyber Security

Algonquin College

Ottawa, ON

Jan 2023 – Dec 2023

Bachelor of Engineering in Computer Science

Mangalore Institute of Technology and Engineering

Karnataka, India

Jul 2017 – Aug 2021