# Kasun BamunuArachchi

*Devops Engineer*

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## SUMMARY

Aspiring DevOps Engineer with a strong foundation in software development, cloud infrastructure, and continuous integration/continuous deployment (CI/CD) processes. Seeking to leverage my skills and experience to contribute to efficient and scalable software delivery pipelines in a dynamic tech environment.

## TECHNICAL SKILLS

**Programming Languages**: Python, JavaScript
**DevOps Tools**: GitHub, Jenkins, Docker, Kubernetes, Ansible, Terraform
**Cloud Platforms**: AWS
**Version Control**: Git, GitHub
**CI/CD**: Jenkins, GitHub Actions
**Containerization**: Docker, Kubernetes
**Configuration Management**: Ansible
**Monitoring & Logging**: Prometheus, Grafana
**Operating Systems**: Linux (Ubuntu)
**Databases**: MySQL, MongoDB
**Web Technologies**: MERN Stack, HTML, CSS

## EXPERIENCE

**Intern IoT Engineer**                                       June 2023 - December 2023
*Vega Innovation, Trace Expert City*                                    *City, Country*

- Conducted comprehensive performance testing and troubleshooting of IoT systems to ensure reliability and scalability.
- Designed and implemented end-to-end IoT solutions, integrating various sensors, microcontrollers, and communication modules.

## PROJECTS

**GPS Live Tracking System** | *ESP32, NEO-8M GPS module, SIM900 GSM module, Node.js, React, Google Maps, Docker, Ku*

- Developed a live tracking system using ESP32, NEO-8M GPS module, and SIM900 GSM module.
- Integrated the system with a Node.js server to send real-time GPS data.
- Displayed GPS data on a React application with Google Maps integration.
- Used Docker to containerize the application and deployed it on AWS using Kubernetes.

**Serverless Application with AWS Lambda and API Gateway** | *AWS Lambda, API Gateway, DynamoDB, SAM*

- Developed and deployed a serverless application using AWS Lambda to handle application logic.
- Configured API Gateway to expose Lambda functions as RESTful APIs.
- Utilized DynamoDB for scalable and managed data storage.
- Automated deployment processes using AWS SAM for efficient management of serverless resources.

**Infrastructure as Code (IaC) with Terraform and AWS** | *Terraform, AWS, GitHub, Jenkins*

- Developed Terraform scripts to provision and manage EC2 instances, RDS databases, S3 buckets, and other AWS resources.
- Implemented state management and version control for infrastructure using Terraform.
- Integrated Terraform with Jenkins to automate infrastructure provisioning and updates.

**E-Commerce Web Application** | *MongoDB, Express.js, React, Node.js, Docker, Kubernetes, AWS, Jenkins*

- Developed a full-stack e-commerce application using MongoDB, Express.js, React, and Node.js (MERN stack).

- Implemented user authentication, product listing, shopping cart, and order management features.

- Deployed the application on AWS using Docker and Kubernetes.

- Set up CI/CD pipelines with Jenkins for automated testing and deployment.

## EDUCATION

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|---|---|
| **SLTC Research University** | 2020 - Present |
| *BTech (Hons) in Electronic Engineering* | *Undergraduate* |
| **Lumbini College - Colombo** | 2016 - 2018 |
| *Engineering Technology* | |

## CERTIFICATIONS

**AWS Cloud Technical Essentials**
*Issuer: AWS*
Demonstrates proficiency in core AWS services, security, architecture, pricing, and support. Covers essential cloud concepts and practical applications of AWS in real-world scenarios.

**Docker Training Course**
*Issuer: KodeKloud*
Covers fundamental and advanced Docker concepts, including containerization, Docker commands, Dockerfile creation, and Docker Compose. Emphasizes practical skills in deploying and managing containerized applications.

**Linux System Administration for Beginners**
*Issuer: KodeKloud*
Provides foundational knowledge of Linux system administration. Includes topics such as file systems, user management, networking, permissions, and essential command-line operations.

## EXTRA CURRICULAR ACTIVITIES

**Open Source Contributor**
*Contributed to various open-source projects on GitHub, focusing on DevOps tools and practices.*

**Tech Community Volunteer**
*Actively participated in local tech meetups and conferences, sharing knowledge and learning from industry experts.*