Dimuthu Vithana

Associate Software Engineer

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Summary

Recent BICT graduate driven especially towards software engineering. Skilled in full-stack development, cloud technologies, and system architecture, with hands-on experience in React, Node.js, Docker, AWS, and CI/CD pipelines. Seeking a software engineering role to develop scalable applications, optimize system performance, and enhance user experiences.

Work Experience

Intern DevOps Engineer | Codeolima Pvt Ltd | Ja-Ela | Mar 2024 - Sep 2024 (6 months)

Project: MSP-Leadership Website
- Optimized website performance by developing JavaScript and NPM-based scripts to minify HTML, CSS, and JavaScript, reducing page load time by 35%
- Configured an AWS EC2 instance for manual deployment of a React.js web application, ensuring a stable and scalable hosting environment
- Deployed the MSP-Leadership website on an AWS EC2 instance and implemented basic security configurations, enhancing website protection and reliability
  Tech Stack : AWS, React.js, Linux, JavaScript, Node.js

Project: Chamber Skills Web Site -Malesia
- Developed and deployed automated CI/CD pipelines for the Chamber Skills website (frontend & backend) using YAML and GitHub Actions, decreasing deployment failures by 40%.
- Configured Nginx on an AWS EC2 instance to optimize the performance of a Node.js application, improving response time
- Implemented a MongoDB replica set, enhancing data redundancy by 70% and reducing data recovery time
- Created an Amazon Machine Image (AMI) to streamline instance replication and disaster recovery, cutting downtime by 50%
- Automated EC2 instance restarts using AWS Lambda, CloudWatch, and IAM, reducing downtime by 20% and ensuring high availability
- Designed and integrated an email alert system using AWS EventBridge & SES, reducing incident response time by 30%
- Automated frontend deployment by writing a shell script (.sh), reducing manual setup time by 80%
- Built Node.js scripts to manage AWS S3 bucket operations (upload, list, download, delete), optimizing cloud storage usage
- Integrated Azure Active Directory authentication, improving security by enforcing multi-factor authentication and reducing unauthorized access by 60%
- Procured and configured a Cloudflare domain, ensuring 99.9% uptime and enhanced security
- Implemented an SSL certificate, securing website traffic and boosting user trust
- Dockerized the Chamber Skills website, enabling faster, scalable, and portable deployments
- Deployed the containerized application on AWS EC2, ensuring scalability and portability

  Tech Stack: Git, CI/CD Pipeline, YAML scripts, AWS, MongoDB, Postman, Docker, Nginex, Shell script, Node.js, Azure, SSL certificate, DNS configurations

Additional Experience

- Deployed a MERN stack multi-container application on Kubernetes, improving scalability and resource management
- Optimized a React.js website for SEO on Google Search and Bing Search, increasing search engine visibility and organic traffic
- Configured a Terraform script to automate AWS EC2 instance provisioning, reducing manual setup time by 50%

Education

University of Vavuniya
BICTs (Hons) in Information and Communication Technology
Jan 2020 – Present
Skills: Software Engineering, Computer Programming, Computer Networking and Administration, Web Development and Hardware and Peripherals, Cloud Computing, Information Security, Data Mining

Projects

[Attendance Management System](#)
Developed a web-based application for teachers and students, reducing manual tracking errors by 80%
   Tech Stack : PHP, CSS, MySQL, xampp, GitHub, Figma, Vs code

[Chat Application (hey-app)](#)
A real-time messaging application with role-based authentication and a mobile-friendly interface for seamless communication.
   Tech Stack: Django, HTML, Tailwind CSS, JavaScript

Skills

Programming & Scripting : C, C#, C++, Python, Java, JavaScript, PHP,Node.js, Shell Scripting
Networking : Routers, Switches
Cloud & DevOps : AWS (EC2, S3, IAM, Route 53), Azure Active Directory, GitHub Actions, Docker, CI/CD Pipelines
Database : MySQL, MongoDB
Security & Infrastructure : SSL/TLS, Cloudflare, IAM Policies

References

Mr. S. S. Suthaharan,
Senior Lecturer,
Department of Physical Science,
Faculty of applied Science,
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Mr. Amila Sampath
Senior Software Engineer,
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Consent and Declaration

R D C Vithana, declare that the information provided in this resume is accurate and true to the best of my knowledge.

Date : 10.03.2025
Place : Kaluthara, Sri Lanka

Dimuthu Vithana