

Dimuthu Vithana

Intern DevOps Engineer

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GitHub: github.com/RDCVithana



Profile

I am a final-year student at the University of Vavuniya, deeply passionate about programming, and committed to making a positive impact. I am dedicated to becoming a skilled DevOps engineer and am proficient in various programming languages, cloud technologies, and tools.

Experience



Intern DevOps Engineer

[Codeolima Pvt Ltd](#)

Mar 2024 - Sep 2024 (6 months)

Project: MSP-Leadership Website

- Create scripts to minify HTML, CSS, and JavaScript files using JavaScript and NPM libraries.
- Manually set up an AWS EC2 instance to deploy this React.js web application.
- Manually deploy the MSP-Leadership website on an AWS EC2 instance and set up basic security configurations.

Expertise Tools: AWS, React.js, Linux, JavaScript, Node.js

Project: Chamber Skills Web Site -Malesia

- Create CI/CD pipelines for the Chamber Skills website's frontend and backend using YAML scripts and GitHub Actions..
- Set up an Nginx configuration on an AWS EC2 instance for a Node.js application..
- Create a MongoDB replica set for backups.
- Create an Amazon Machine Image (AMI) for this AWS EC2 instance.
- Set up a mechanism to restart an EC2 instance if its CPU usage exceeds 95% or every Sunday at midnight using AWS Lambda, CloudWatch, and IAM.
- Set up a system to notify the technical team via email before an EC2 instance is restarted using AWS EventBridge and SES.
- Create an automation shell script (.sh) file to manually deploy the Chamber Skills website's frontend.
- Create Node.js scripts to upload, list, download, and delete files from an AWS S3 bucket.
- Set up login authentication using Azure Active Directory.
- Buy and set up a domain for the Chamber Skills website using Cloudflare DNS configurations.
- Generate an SSL certificate and attach it to the Chamber Skills website.
- Docker Containerize Chamber Skills website
- Deploy the containerized Chamber Skills website on an AWS EC2 instance.

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

Other Experience

- Deploy a MERN stack multi-container application on Kubernetes.
- Optimize a React.js website for SEO on Google Search and Bing Search.
- Set up a Terraform configuration file to create an AWS EC2 instance.

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](#)

The app streamlines attendance tracking for teachers and students with a responsive interface.

Features:

- A secure user authentication system with modern features, enabling separate access for administrators, teachers, and students.
- Teachers can create, update, and delete attendance records for each class or session.
- Students can log in to view their attendance status for each subject.

Expertise Tools: PHP, CSS, MySQL, xampp, GitHub, Figma, Vs code

[Chat Application \(hey-app\)](#)

The app enables real-time messaging with a responsive interface, role-based authentication, and secure, user-friendly communication.

Features:

- A secure user authentication system using modern features, ensuring separate access for different users.
- Store and retrieve past messages for users to review their chat history.
- A mobile-friendly interface for seamless usage across desktops, tablets, and smartphones.

Expertise Tools: Django, HTML, Tailwind CSS, JavaScript

Expertise Skills and Tools

Programming/Scripting Languages : C, C#, C++, Python, Java, HTML, CSS, JavaScript, PHP

Network Technologies : Routers, Switches

Operating Systems : Windows, Linux

Database : MySQL, MongoDB

Tools : Visual Studio, Visual Studio Code, Proteus, Tally Prime, Computer-Aided Design (CAD), Adobe Lightroom, Photoshop, Figma, Adobe XD, Keil, Xampp, Cisco Packet Tracer, Jupiter Notebook, Postmen, Matlab, Weka, Spring Tools,

References

Mr. S. S. Suthaharan,
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Mr. Amila Sampath
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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 : 22.01.2025

Place : Kaluthara, Sri Lanka

Dimuthu Vithana