Thanuja Priyadarshane

Backend Software Engineer | DevOps Engineer

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Profile

Computer Science undergraduate with over 1 year of hands on experience in Backend Engineering and DevOps Engineering. Experienced in building APIs, working with Databases, and leveraging automation and CI/CD tools. Strong interest in Cloud platforms, and designing scalable data pipelines.

Professional Experience

12/2025 – Present
Colombo,SL (Remote)

Software Engineer Intern, Ascent Business Solutions
- Designed and implemented automated data extraction pipelines for structured and semi structured documents, improving data availability and processing efficiency.
- Contributed to the development, debugging, and enhancement of the Insync Talent Acquisition and HR system, working across both backend services and frontend components.
- Designed and maintained CI/CD pipelines using GitHub Actions to enable faster, reliable deployments across development and production environments.

React.js, Python(FastAPI, Django), Automation Anywhere, Google Gemini, Github Actions, AWS

05/2025 – 11/2025
Colombo,SL

DevOps Engineer Intern, NVISION (PVT) Ltd
- Developed an automated CI/CD pipeline to deploy Node.js (React/Next.js) applications to multiple servers across Dev, QA, and Prod environments.
- Analyzed VA and MBSS reports for the Dialog AAA Project, identifying risks and strengthening system security.
- Configured Apache and .htaccess settings to restrict unauthorized read/write access on production server directories, enhancing overall system security.
- Enforced access controls via SELinux and promoted secure coding practices.
- Secured and optimized AWS S3 buckets, improving efficiency and reducing overhead.
- Implemented ionCube encryption to secure PHP source code from unauthorized access.

Docker, Bitbucket Pipeline, Terraform, Linux, Zabbix, AWS, Shell Scripting, Jenkins

06/2024 – Present
Colombo,SL

Software Engineer, Freelancer
- Built and delivered web, mobile, and backend applications for real world client requirements
- Designed scalable backend architectures using Service Oriented and Microservices patterns
- Developed efficient, cost optimized APIs with focus on performance and maintainability
- Implemented CI/CD pipelines for automated build, test, and deployment workflows
- Containerized applications using Docker to ensure consistent and portable deployments
- Collaborated directly with clients through requirement gathering, technical discussions, and presentations
- Gained hands on experience in secure coding practices, cloud security, and production grade deployments

Java(Spring Boot), Javascript(React.js, Express.js, Nest JS), Flutter, MySQL, MongoDB, AWS, Github Actions, Docker

Education

2022 – Present
Matara,SL

Bachelor of Computer Science, University of Ruhuna
Current GPA - 3.47 (Second Class Upper Division)

Projects

Dialog AAA Project - NVISION (PVT) Ltd, Dialog AAA Platform – Cloud Infrastructure, Security & Monitoring Project
- Contributed to security analysis of VA and MBSS reports for the Dialog AAA platform, supporting vulnerability identification and risk mitigation initiatives.
- Designed and documented infrastructure architecture diagrams for both the Dialog AAA production environment and the Dialog AAA Disaster Recovery (DR) environment, improving system understanding and operational readiness.
- Provided monitoring and operational support using Zabbix, ensuring high availability and proactive incident detection across critical services.
- Implemented and supported a centralized logging solution using Graylog for the Dialog AAA Disaster Recovery environment to enhance log visibility and troubleshooting capabilities.
- Performed server hardening and security configurations using SELinux, aligning systems with enterprise security best practices.

AWS, Red Hat Enterprise Linux 9, Zabbix, Graylog, ElasticSearch, Elastic Load Balancer(ELB), Apache, SELinux

InSync - Ascent Business Solutions, HR and Talent Acquisition Management System for Brandix Limited Lanka
- Contributed to bug fixing, enhancement, and maintenance of the React-based frontend HR system, ensuring improved stability and user experience.
- Designed and implemented role based access control (RBAC) by introducing new permission structures, strengthening system security and access governance.
- Implemented and maintained CI/CD workflows using GitHub Actions runners for the backend application, enabling automated builds, testing, and deployments.
- Analyzed and optimized slow running queries in the MSSQL production database, implementing performance improvements to enhance application responsiveness and scalability.

Javascript(React.js, React Query), Python(Django), MSSQL, REST API, Github, Github Actions, AWS, Linux

S.D.A Detailing - Freelancing, A full stack Ecommerce motorcycle marketplace with integrated CMS 🔗
- Designed and developed a full stack web solution for marketing and online presence, including a separate Content Management System (CMS) for administrators to manage motorcycle listings and website content.
- Deployed the backend with MySQL installed on the same server, ensuring low latency data access and efficient backend database communication.
- Hosted the frontend on Vercel and configured DNS and reverse proxy rules to securely route network traffic between frontend and backend services.

Javascript(React.js), Java 25(Spring Boot), Axios, AWS(EC2, VPC), MySQL, Vercel, spaceship, Nginx, REST API

Loop - POC Project, Asset Investment Planning System built to gain hands on experience in container orchestration.
- Designed and developed a data driven Asset Investment Planning system to recommend optimal assets based on user budget, leveraging structured resources, user inputs, and file based data sources.
- Handled complex decision logic by integrating Google Gemini (LLM) for asset data extraction and applying optimization algorithms such as the Knapsack problem to prioritize investments effectively.
- Built the system as a scalable microservices architecture, containerizing each service with Docker and deploying on Kubernetes to ensure high availability, scalability, and production grade reliability.

Javascript(React.js), Java 17(Spring Boot) for Core Logics, Python(FastAPI) for Auth, Google Gemini, Docker, Kubernetes, REST API

References

*References available upon request