PAVITHRA SANDAMINI
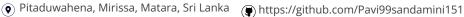
Senior Software Engineer

+94779625701
gpavithrasandamini@gmail.com
pavithrasandamini/linkedIn
Pitaduwahena, Mirissa, Matara, Sri Lanka
https://github.com/Pavi99sandamini151
https://medium.com/@pavithrasandamini

EXPERIENCE

Software Engineer

Q4US Technologies   **2023 - Present**

SBCA Server
A truss-related management application for users over 5000, daily inspections, companies, and locations.
• Updated all Terraform files by comparing the current deployment infrastructure, ensuring 99.9% consistency between code and released resources.
• Set up a new SBCA development environment for developer testing from scratch, in collaboration with the DevOps team, using Kubernetes, Terraform, and AWS services, reducing the bug occurrence rate by 50%.

• Developed and provisioned a daily email notification system as a cronjob, to send inspection summaries to 500+ users per day
• Maintained test coverage above 90% with unit testing using Mocha for all features and bug fixes to ensure system accuracy.

SBCA Digital QC
A client application for that above 5000 users to inspect trusses and upload inspections into SBCA server.

• Secured login data for {500,000} users by engineering solutions for Windows installer upgrades.
• Optimized client's login time by 50% since they don't need to enter details again

SBCA Job site
Application for users to create document based packages using application and download them in 100% web based environment.
• Created invoices for over 1000+ users, considering the document count they have used monthly.
• Introduced a new public webpage for Jobsite package to enhance their customer interaction by 75%.
Link: https://app.jobsite.q4us.dev/

UT AI
A user-friendly product to manage all the truss organizations with inspections, users and companies.
• Did the design and launched the public website for the UTAI from scratch, enhancing user engagement by 2x.
Link: https://universaltruss.ai/
• Implemented features like PDF upload, view and download mechanism truss related PDF files.
• Led full migration of UTAI deployment infrastructure from AWS to Azure, achieving zero downtime and maintaining 100% data consistency during the transfer of RDS and MongoDB Atlas, ensuring a seamless transition of all services.

USLBM
A QR based document distribution application of the plates in truss joints.
• Created fully responsive layout for dashboard with ensuring 100% success of the user experience.
• Implemented micro-frontend integrations like user management, audit and table components for this USLBM application with all UI and backend complete sections with features like role-based access and single sign-on for all users
• Customized Keycloak themes and actions, ensuring user experience in 100% with correct branding while reducing authentication-related support requests.

SUMMARY

Software engineer, a tech enthusiast who always passionate about exploring new opportunities and mastering new technologies. I aim to leverage my expertise to deliver modern solutions that create lasting value with collaborating with others.

EDUCATION

Bachelor of Science in Computer
University of Colombo School of Computing
2019 - 2023
Completed a Bachelor of Science in Computer Science with a Second Class Upper Division and A GPA of 3.41/4.0. (-)

SKILLS

Programming Languages

TypeScript, JavaScript, Python, Java

Frontend Development

ReactJS, NextJs, ViteJs, HTML, CSS, AntDesign, Tailwind, SASS

Backend Development

NodeJs, ExpressJs, Molecular

Database

Postgres, MYSQL, MongoDB, Firebase, MSSQL

Software Testing

Unit testing with mocha

Cloud & DevOps Technologies

AWS, Azure, Docker, Kubernetes, Terraform, Gitlab CI/CD

Tools & Technologies

Swagger, Linux, Gitlab, Git, Postman, Confluence, Jira

Projects

Vita - Ongoing
A chatbot application, that answers for truss domain specific questions.
• This project is an internal company initiative aimed at building a simple chatbot application. The primary goal is to assist employees by providing quick and accurate responses related to the truss industry as well as company-specific projects and information.
Tech stack:
Flask, python, open AI, React JS

JAX
• Launched the entire infrastructure from scratch in Azure Cloud using Docker Swarm, ensuring 100% consistency in the system.

Internal Projects
• Migrated all AWS-related deployment infrastructure to Azure, including networking, databases, and storage, with zero downtime and reduced cloud costs by 15%.
• Set up and released the entire Azure infrastructure from the ground up, achieving zero downtime and a 15% decrease in cloud expenses compared to AWS.
• In the micro-frontend library audit, changed the UI layout to improve user interaction by 65% compared to previous version.
• Added a new capability in the audit micro-frontend to switch between options, ensuring 0 number of breakdowns in existing functionalities.
• Created a switch between MSSQL and PostgreSQL databases according to user preference, ensuring 0 breakdowns in existing functionalities.
• Revised the Terraform auto-deploy module according to new database changes without any crashes in the existing Terraform module.

Software Engineer
IdeaBoost   2023 - 2024

IManage
An application to maintain cleaning services
• Cleaning staff apply the status of their jobs via the mobile app, while administration checks the progress of their employees in real time and assigns new jobs through the server application.
• Implemented the UI with frontend from the initial phase using technologies like React, Node.js, Express, JavaScript.
• Increased user adoption by 25% as a result of optimizing application features for cleaning service management.

Engagi
A QR based event management system
• Received a ticket for the event via a QR code this will track attendance through the event using the QR code provided (System that used in National IT conference in Sri Lanka to manage 1000+ users attendance)
• Mainly developed frontend implementations of the application progressive web application used here with ReactJS and TypeScript to enhance the user experience by 90%.

Intern Software Engineer
Cloud Eight Technologies   2023 - 2024

Footprint is a tool for measuring the load test of our software solution and Grove Health is a pharmacy & doctor channeling management system.
• Supported the Footprint and Grove Health engineering processes by engineering applications using modern technologies such as React, TypeScript, NextJs and unit testing.
• Increased the unit test coverage by 65% in both applications.
• Published a sample web page in a given AWS EC2 instance

CERTIFICATION

Docker, Docker Swarm, Docker training course
-KodeKloud
Kubernetes for beginners
-KodeKloud
Grafana loki, AWS ECS
-KodeKloud
AWS Cloud Technical Essentials
-Amazon Web Services

REFERENCES

Mr. Radeeka Kaththirige
DevOps Engineer
Wordline
+4673742939
radeeka.kaththirige@wordline.com

Mr. Ravindu Jayakody
Senior Full-stack Engineer
Axinom pvt ltd
+94712044642
mihirange@axinom.com

LANGUAGES

English   Proficient   ●●●●○