PAVITHRA SANDAMINI

Senior Software Engineer

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🔗 https://medium.com/@pavithrasandamini   Pavithra.sandamini.portfolio   🔗 https://www.credly.com

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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 Science
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

CERTIFICATES

HashiCorp Certified: Terraform Associate (003)
Click here to credentials

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 sapplication. 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.
Repo
Tech stack:
Flask, python, open AI, React JS

WORK EXPERIENCE

Software Engineer
Q4US
2023 May - Present

SBCA Server
A truss-related management application for users over 5000, daily lumber inspections in different companies and locations.
- Updated all Terraform files by comparing the current deployment infrastructure to reflect manual changes, ensuring 99.9% consistency between code and deployed 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 5000+ users by engineering solutions for Windows installer upgrades.
- Did the all-version update in the DQC application with zero crashes and downtime DQC application in both windows MSI as well as android APK using Wix and Buildozer.
- Revamped UI of all the screens in the application and increased the user interactions by 84%.

SBCA Job site
Application for users to create document-based packages using applications and download them in 100% web-based environment.
- Created invoices in excel format for over 1000+ users, considering the document count they have used monthly.
- Created Grafana dashboards for the server enabling the alerts and visual representation of all the requests to increase the performance by 80% with fast debugging and logging.
- 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 web-based 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 0 downtime and maintaining 100% data consistency during the transfer of two different databases, ensuring a seamless transition of all services.

REFERENCES

Mr. Radeeka Kaththirige
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USLBM

A QR based document distribution application of the plates in truss joints.

- Created fully responsive layout using mono-repo architecture for dashboard with ensuring 100% success of the user experience with different user roles.
- 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

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, the UI layout changed to improve user interaction by 65% compared to previous version.
- Added a new capability in the audit micro-frontend to switch between two database options as Postgres and MSSQL, ensuring 0 number of breakdowns in existing functionalities.
- Revised the Terraform auto-deploy module according to new database changes without any crashes in the existing Terraform module.
- In user management micro-frontend enhance the user actions by adding new options to create users, edit users, delete users and assign roles to users with Keycloak.
- In project JAX Launched the entire infrastructure from scratch in Azure Cloud virtual machine using Docker Swarm, ensuring 100% consistency in the system with 0 downtime.

Software Engineer (on-contract)   2023 - 2024
IdeaBoost

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 of 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%.

Software Engineer Intern   2023 - 2024
CloudEight Technologies

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