





Sithumini Amarasinghe

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ABOUT

Motivated third-year undergraduate with a focus on UI/UX design using Figma and frontend development with React.js, interested in integrating DevOps practices. Experienced in project management and SDLC, with enthusiasm for learning, sharing knowledge, and embracing new challenges in professional settings that bridge development and operations.

EDUCATION

B.Sc. Engineering Honors Degree Specialized in Computer Engineering 2021 - present
Current SGPA: 2.85/4.00

PROJECTS

Bike Pulse [Source Code](#) [User Interface](#) [Mobile Application](#) [Jira](#) Nov 2023 - June 2024

- Lead UI/UX designer for the bike service management system project.
- Collaborated with frontend developers to ensure cohesive design and implementation.
- Created Docker images, including an admin-flow Docker image, for containerizing components of a bike service management system
- Implemented Jenkins pipelines to automate build and deployment processes, integrating Docker containers into a continuous integration/continuous deployment (CI/CD) workflow
- Managed Jira accounts, ensuring tasks were well-defined, assigned, and tracked effectively.

Technologies: React.js, Sprint Boot, Figma, Jira, MySQL, Agile, Jenkins, Docker

Results Management Website [Source Code](#) 2024

- Independently spearheaded the development of a Results Management System, encompassing comprehensive features.
- Includes user authentication with login and sign-up functionalities.
- Implements CRUD operations for efficient results management.
- Designed to streamline the process of handling and updating results data.
- Provides a user-friendly experience for effective academic record management.

Technologies: MERN

Heart Failure Prediction Model using Machine Learning [Source Code](#) January 2024

- Headed the development of a machine learning model to predict occurrences of heart failure.
- Utilized sophisticated algorithms including linear regression and random forest.
- Analyzed clinical data to forecast the likelihood of heart failure events.
- Played a primary role in designing, implementing, and fine-tuning the predictive model.

Technologies: Python, scikit-learn

- Lead frontend developer for a revolutionary bus transportation mobile app.
- Involved in project management, feature implementation, and ensuring an optimal user experience.
- Focused on creating a user-friendly interface resulting in a seamless booking process.
- Demonstrated expertise in mobile app development and effective team leadership.
- Delivered an innovative solution for efficient ticketing and enhanced passenger convenience.

Technologies: Flutter, Firebase, Figma

OTHER QUALIFICATIONS

Certificates

- University of Morotuwa - Web Design for Beginners
- University of Morotuwa - Python for Beginners
- SLIIT - AI/ML Engineer Stage 1
- SLIIT - AI/ML Engineer Stage 2

Technical Skills

- Design Patterns
- Software Engineering Principles
- Programming Languages: JavaScript, HTML/CSS
- Frameworks/Libraries/Tools: React, Node.js
- Database: MongoDB
- Machine Learning
- Version Control: GitHub
- Project Management: Jira
- UI/UX Design: Figma
- DevOps: Jenkins, Docker

Soft Skills

- Leadership Skills & Team Work
- Self-Learning
- Time Management
- Problem Solving

Volunteering Work

- Mehewara — 2023 - Present Participated in the "Mehewara" Seminar Series organized by the Faculty of Engineering, University of Ruhuna

REFERENCES

Dr. Rajitha Udawalpola
Sn. Lecturer, Dept. of Electrical and Information
Engineering, University of Ruhuna
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Dr. Chandana Perera
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