

MADUSHA BANDARA

ASSOCIATE SOFTWARE ENGINEER

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INTRODUCTION

I am a dedicated and versatile Front-End Developer with a solid foundation in creating web applications and user interfaces. With almost a year of professional experience, I have honed my skills in using modern technologies to deliver high-quality software solutions. I focus on optimizing performance with React and frameworks like Next.js. I thrive in collaborative environments where I can use my frontend development skills to drive impactful solutions.

EDUCATION

Bachelor of Science (BSc), University of Kelaniya

Mar 2020 - Jul 2023

- Major: Computer Science, Mathematics.
- Language: English
- Year of Graduation: 2023

SKILLS

- **Technical Skills:** *Java | Python | C | C# | Javascript (ReactJS, ExpressJS, NextJS, ThreeJS, RapierJS, React Three Fiber, Zustand) | Kotlin | SQL (MySQL)*

WORK EXPERIENCE

Ogilvy Digital (Martech)

Nov 2023 - Present

QR Code to vCard Web Application:

- Developed a web app that captures contact details via a form and generates an e-card with the user's details, including a QR code containing the contact information for easy saving.
- Created the frontend with React and the backend API with Python Flask.

Website with Next.js:

- Created a website UI using Next.js and implemented OAuth for Google login.

Web Games with JavaScript(React, Three):

- Developed an interactive Sri Lankan Dice game and a letter game using a robust tech stack that included MySQL, Sequelize, React, and Express.
- Implemented a 3D environment for the game using React Three Fiber and the Rapier physics engine to provide a realistic physics experience, including features like collision detection, gravity, friction, and velocity handling.
- Incorporated Facebook login feature and cookie sessions for user authentication and session management.
- Implemented navigation features and password hashing methods for secure user authorization.
- Utilized Sequelize as an ORM to define models for structuring and passing data.
- Leveraged Zustand for efficient state management across the application.

Project Management & Version Controlling:

- Utilized Jira for project management and issue tracking in an Agile/Scrum environment.
- Managed source code repositories using GitHub and Bitbucket, facilitating collaborative software development among team members.
- Used terminal for version control tasks, gaining proficiency in handling terminal/bash commands.

PROJECTS

Next.js Web App : Created a Prompt Sharing web application using Next.js, a React framework.

Data Submission and Display Application: Developed a web app using React.js and Apache ECharts with features like data submission, table display, interactive chart generation, data editing, and dynamic column management. The project is hosted on GitHub and Render.com for version control and easy access.

TO-DO App: Created a to-do app using MySQL, JDBC, and JavaFX with MVC architecture. Emphasized task organization, code efficiency, and skill development in database transactions, Java OOP, Singleton, and MVC.

Pharmacy Management System: Created a pharmacy management system using Java, applying Object-Oriented Programming (OOP) principles. Developed under the "Object Oriented Programming (Java)" course module.

Agricultural Website: The website's objectives include providing a platform for farmers to share their challenges in agriculture, raising awareness about farming issues and solutions, offering information on new technologies and practices, and facilitating communication among farmers, researchers, policymakers, and stakeholders.

VOLUNTEERING PROJECTS

- **Gavel Club:** Assistant Secretary & Project Chair at Gavel Club, University of Kelaniya, coordinating a Best Speaker Competition for over 20 universities.
- **AIESEC Colombo North:** ICX Team Member, establishing international partnerships.
- **Career Fair:** Played key roles in Career Fair planning and management.
- **Vide Club University of Kelaniya:** Vice President.
- **Humane Club University of Kelaniya:** Volunteer in Dog Vaccination Program.
- **Mathematics Department:** Engaged in School Teaching Seminar Program and achieved semi-finalist status in Inter-Department Debate Competition.

SPORTS

- **Scrabble:** University Colours Winner

REFERENCES

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