YASASHRI MEDAGEDARA

SOFTWARE ENGINEER

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PERSONAL PROFILE

Full-stack Software Engineer with over 5 years of industry experience, specializing in frontend development using React.js, TypeScript, and modern UI frameworks. Proficient in backend technologies such as Laravel, Nodejs, and experienced with relational and NoSQL databases including MySQL, MongoDB, and PostgreSQL. Demonstrated expertise in developing scalable web and mobile applications, system architecture, and agile methodologies. Strong emphasis on clean code, performance optimization, and user-centered design. Actively seeking opportunities to advance academic knowledge, contribute to research and innovation in software engineering, and pursue continuous professional and intellectual growth.

EDUCATION

Cardiff Metropolitan University, UK (via ICBT Campus, Sri Lanka)

BSc (Hons) in Software Engineering – Second Class Upper Division
Graduated: 2019

Final Year Project:
Teaching English Through Video Games
Designed and developed a 3D educational game using Unity, GIMP, Audacity and Blender to teach English to Sri Lankan children in an engaging, interactive way. The game aimed to improve language learning by replacing traditional classroom methods with a more immersive experience, incorporating gamified lessons, challenges, and character interaction. Simple 3D models were created using Blender, with scripting in C# within Unity

Artificial Intelligeance Module Project:
AI-Powered Prescription Reader
Developed a Python-based machine learning application for converting handwritten doctor prescriptions into readable text for patients. The system used OCR (Optical Character Recognition) and NLP (Natural Language Processing) techniques, likely leveraging libraries such as TensorFlow, OpenCV, Tesseract OCR, and NLTK. The aim was to increase accessibility and reduce prescription misinterpretation by non-medical users.

National Institute of Business Management, Sri Lanka.

Higher Diploma in Computer Based Information Systems
(2017) GPA - 3.6

Higher Diploma Final Project:
Horror Survival Game
Created a 3D horror-themed game using Unity, with audio design handled in Audacity, and 3D assets modeled in Blender. The game featured immersive storytelling and jump-scare mechanics. Implemented using JavaScript and C# for game logic, NPC and interactions.

National Institute of Business Management, Sri Lanka.
Diploma in Computer System Design
(2015) GPA - 3.6
Diploma Final Project:
Hospital Management System
Developed a desktop-based application to manage patient records, appointments, billing, and staff scheduling. Built using Java (Swing/AWT) for the user interface, MySQL for the database, and used JDBC for database connectivity. The project followed the MVC design pattern and included basic reporting features. Development and testing were done using NetBeans IDE,

PROFESSIONAL EXPERIENCE

Software Engineer (Full stack, Remote), Creative Tribe, NZ

Aug 2022 - May 2025

- Built a full-featured online marketplace using Laravel, React.js, TypeScript, Redux, and MySQL.
- Designed wireframes and UI/UX mockups using Adobe XD and Figma.
- Participated in regular code reviews to maintain code quality and consistency.
- Led SEO optimization and user experience improvements.
- Managed web hosting (GoDaddy, Freeparking) and resolved deployment/server issues.
- Maintained version control using Git and Bitbucket.
- Created technical documentation and conducted direct client communication to gather and refine requirements.

Food ordering system

- Developed a food ordering platform using React, TypeScript, Redux, Laravel (PHP), and MySQL.
- Migrated and modernized an older JavaScript codebase to React.js with TypeScript for improved maintainability and performance.

Junior Software Engineer (On-site), Creative Tribe, NZ. Sri Lankan branch.

Aug 2019 - Aug 2022

- Developed a course content management platform from the ground up using PHP Laravel, React.js, and MySQL.
- Performed API testing with tools such as Postman and Insomnia.
- Wrote unit and integration tests using Jest, ensuring high code reliability and test coverage.
- Integrated Stripe payment system for user subscriptions, enabling access to paid course content hosted on Vimeo.
- Built responsive, pixel-perfect UIs using HTML, SCSS, and JavaScript, based on provided design mockups.
- Conducted research on emerging technologies and documented best practices to support continuous improvement of the team's tech stack.

Trainee IT Assistant, Board of Investments, Sri Lanka.

2017 (6 month internship)

- Monitored and maintained IT systems and official websites at the main office to ensure optimal performance and uptime.
- Troubleshot network-related issues, enabling reliable communication and connectivity across departments..
- Provided technical support for both Windows and Linux environments, resolving hardware and software issues efficiently.
- Performed regular system maintenance tasks including OS reinstallation, hardware diagnostics, and custom PC builds to meet specific organizational needs.

Freelance work

2015 - Present

- Designed modern, user-friendly interfaces using Figma for web and mobile applications.
- Developed and customized websites using WordPress, focusing on responsiveness and client-specific features.
- Built front-end interfaces using HTML, CSS, SCSS, Bootstrap, and basic Tailwind CSS.
- Developed back-end services with Node.js and basic Python for lightweight server-side functionality.
- Created interactive, browser-based games using JavaScript.
- Developed various applicatons and web based solutions for NW Network solutions (https://nwnetworksolutions.com/)

SKILLS

- Front-end: HTML, CSS, React.js, NextJS (Basic), React Native (Basic), UI/UX Design, Sass, Bootstrap, TailwindCSS.
- Back-end: Laravel, Node.js, Vanilla PHP. (Basic - python, java, C#)
- Databases: MySQL, MongoDB, PostgreSQL
- Version Control: Git, Bitbucket
- Documentation: Technical writing, project scoping
- Testing: Jest, React Testing Library, Postman/Insomnia.
- Deployment & Hosting: Vercel, GoDaddy, Freeparking, Altervista.
- CMS: WordPress

LANGUAGES

- English
- Sinhala

CERTIFICATIONS

- IELTS Academic (Score: 6.5, 2024)
- Postman API Fundamentals Student Expert (CID: 671370a92a47e41a7af3bea4)

AWARDS AND ACTIVITIES

- 1st Rank in all island chess championship in 2009 (1st board).
- Captain – School Chess Team – Led the team in national and inter-school tournaments; organized practice sessions and strategy planning.
- Participated in multiple university-level hackathons.
- Actively participated in sprint planning, pair programming, and technical discussions using Git workflows and pull request reviews.

REFERENCES

Mr. Nalin Wijesekera,
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NW Network Solutions, Owner Operator.
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