
CHAMATH SENANAYAKE

SOFTWARE ENGINEER

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ABOUT ME

Passionate and results-driven Software Engineer with a degree in Computer Science and hands-on experience in delivering high-quality software solutions. Currently employed in a dynamic software development role, I bring a strong foundation in coding, problem-solving, and teamwork. I am dedicated to continuous learning and improving system efficiency, while leveraging my knowledge to create innovative and scalable applications. Eager to contribute technical expertise to a forward-thinking team and drive impactful projects.

WORK EXPERIENCE

SOFTWARE ENGINEER, Q4US SRI LANKA (PVT) LTD

May 2024 - Present

- Worked across the full stack, building both the backend with **Molecular.js** microservices framework and the frontend using **React** and **TypeScript** for the UTM project.
- Implemented AI-driven features, including an AI search filter using **OpenAI** function calling, and developed methods for **RAG** evaluation and **AI text-to-SQL** evaluation with automated test set generation.
- Managed backend data using **MongoDB** for file storage and **PostgreSQL** for user and site management.
- Contributed significantly to testing tasks by writing unit tests with the **Mocha** framework, working closely with Quality Engineers to ensure high code quality, performing debugging, and addressing production issues.
- Played an active role in project planning, collaborating with cross-functional teams to define project requirements and timelines.
- Created detailed design document specifications for UI components, ensuring clarity and consistency in the front-end development process.
- Worked with **Docker** to streamline deployment and containerization processes.

(Technologies Used: Node.JS, Molecular.js, TypeScript, React, MongoDB, PostgreSQL, Mocha, Docker)

UNDERGRADUATE TRAINEE, Q4US SRI LANKA (PVT) LTD

Nov 2023 - May 2024

- Contributed to the development of new features for the existing system, 'Atlantic,' a multi-platform project focused on managing truss jobs for clients, adhering to industry best practices.
- Worked on the backend of a Windows application using **C#** and **.NET**, alongside frontend development using **React** and **TypeScript** for the web interface.
- Assisted in building and enhancing a mobile application using **Flutter** to extend the system's capabilities to mobile platforms.
- Collaborated with cross-functional teams in an Agile environment, participating in sprints, daily stand-ups, and project planning.
- Engaged in unit testing, debugging, and issue resolution, ensuring smooth integration of features.
- Supported code reviews and technical discussions to improve software performance and maintainability.

(Technologies Used: C#, .NET, TypeScript, React, Flutter)

SKILLS

- | | | |
|-----------------------|----------------|-------------|
| • React | • Tailwind CSS | • Git |
| • Node | • C++ | • Molecular |
| • TypeScript | • Python | • Mocha |
| • Express | • .NET | • Docker |
| • HTML/CSS/JavaScript | • C# | • OpenAI |
| • MySQL/MongoDB | • Flutter | • C |

EDUCATION

BSC IN COMPUTER SCIENCE

Apr 2021 - Nov 2024

UNIVERSITY OF COLOMBO- SCHOOL OF COMPUTING
GPA 3.45

G.C.E. ADVANCED LEVELS

Feb 2006 - Aug 2019

Richmond College, Galle, Sri Lanka
Combined Mathematics-A | Chemistry-B | Physics-B

CERTIFICATES

- [React Basics issued by meta](#)
- [Leaning Redux Toolkit by Ebenezer Don](#)
- Modern React by Udemy
- [Postman API Fundamentals Student Expert](#)

ACHIEVEMENTS

- Coordinator of Richmond College IT society (2017-2018)
- Assistant secretary of Richmond College Science Society (2018)
- All Island singing competitions -1st place (instrumental support) (2014)

PROJECTS

MARKASSIST

2023

An all-in-one solution which was implemented for marking, analysing, grading and ranking exam papers using Machine Learning., Python, FastAPI, React, Tailwind CSS, MongoDB, OpenCV, Azure Computer Vision, Firebase[Storage], AWS, OpenAI, 2023

AUDEXLK

2022

A web application where music related service providers and buyers can collaborate and sell and buy goods directly or to hold auctions., HTML, CSS, PHP, JS, Fetch, AWS, Stripe, PHPMailer, chartJS

AIRBNB-CLONE

2023

An airbnb clone, full-stack MERN application which provides access to various CRUD operations., MERN stack, Tailwind CSS, jwt, Google oauth

YOUTUBE-CLONE

2023

An application designed as a YouTube replica which grants users access to perform CRUD operations on various content., MERN stack, Redux Toolkit, Firebase[Authentication, Storage], jwt

SEWANA HOLDINGS PROPERTY MANAGEMENT WEBSITE

2021

A computerized solution for a real estate company which helps in employee management, property management and customer management., HTML, CSS, JS, PHP, XAMPP, SQL

REFERENCES

R. G. S. Dharmasiri

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