
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 using Python FastAPI.
- 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.
- Implemented PDF stamping functionality by applying templates using PDFtk.
- Implemented a micro frontend for the admin dashboard using React and Chart.js to display dynamic and interactive charts, enhancing data visualization and modular scalability.

(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.

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

SKILLS

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

EDUCATION

BSC IN COMPUTER SCIENCE

Apr 2021 - Nov 2024

UNIVERSITY OF COLOMBO- SCHOOL OF COMPUTING
GPA 3.49

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](#)
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EXTRACURRICULAR

- Acted as a presenter at the UCSC Career Fair 2025, delivering a speech to undergraduates
 - Participated in NBQSA 2023, Sri Lanka's premier competition recognizing excellence in software and ICT innovation
 - Completed the 11-week Speechcrafters Program by Toastmasters International
 - Served as Coordinator of the School IT Society, organizing workshops and tech awareness sessions
 - Served as Assistant Secretary of the School Science Society, assisting in event coordination
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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

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

References available upon request