

THANUJA WICKRAMASINGHE

Software Engineer

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Profile

Software Engineer with expertise in full-stack development, leveraging React, Node.js, and MongoDB to deliver intuitive, high-performance applications. Proven track record enhancing user experiences, streamlining workflows, and providing impactful solutions across industries.

Skills

JavaScript, TypeScript, Python, SQL, React.js, React Native, Redux, SASS, Tailwind CSS, Node.js, Express.js, Flask, RESTful APIs, MongoDB, SQL Workbench, Docker, CI/CD Pipelines, Google Cloud Platform (GCP), DevOps, DevSecOps, GitHub, i18n, Random Forest, XGBoost, LSTM, ARIMA, SARIMA, Gradient Boosting

Work Experience

Associate Software Engineer - Avenir IT

Feb 2024 - Present

- Transformed the healthcare management system as a full-stack developer by spearheading the creation of an advanced dental treatment module, resulting in improved patient management and streamlined processes.
- Developed an interactive digital tooth chart enabling dental practitioners to mark diagnoses and treatments directly on individual teeth.
- Implemented scalable, high-performance SVG-based treatment and diagnostic notations, replacing traditional PNGs to improve rendering efficiency and maintain visual clarity.
- Engineered responsive and user-friendly interfaces using React, Redux, and SASS, delivering an intuitive user experience.
- Designed and integrated backend services with Node.js, TypeScript, and MongoDB to handle data management and secure storage.

Software Engineer Intern - Avenir IT

July 2023 - January 2024

- Acquired hands-on experience as a full-stack developer through diverse projects, utilizing technologies like React and Node.js, while enhancing user experience and boosting project efficiency.
- Drove the development of a robust Examination System as a full-stack developer, utilizing React for a responsive frontend, Node.js and Express for a dynamic backend, and SQL Workbench for effective database management, which enhanced user experience and streamlined assessment processes.
- Led the design and development of an innovative Agricultural App using TypeScript and React, streamlining data operations with SQL Workbench, contributing to enhanced efficiency for local farmers.
- Engineered seamless integration of frontend and backend components using React and Node.js, while optimizing relational database management to enhance application performance and user experience.

Education

Sri Lanka Institute of Information Technology (SLIIT)

July 2021 - July 2025

BSc (Hons) in Information Technology Specialized in Software Engineering

Relevant Coursework: Object Oriented Programming, Enterprise Applications Development, Software Engineering Process & Quality Management, Application Frameworks, Software Architecture, Mobile Application Development, Databases, Data Structures and Algorithms, Machine Learning, Image Processing, Distributed Systems

Project Work

- CocoTech — Final Year Research Project (2024/25):** Built a smart agriculture system to support Sri Lanka's coconut industry with data-driven insights. Designed and implemented hybrid prediction models (Random Forest, XGBoost, LSTM, ARIMA, SARIMA) for yield and market price forecasting. Developed a React Native app with Flask backend to deliver real-time predictions to farmers. Applied Python, TypeScript, MongoDB, React Native and i18n for a scalable, multilingual solution.
Key Skills: Python, Flask, React Native, TypeScript, Machine Learning, MongoDB
- EduCode — Research Project (2023):** Built a secure peer review system for a 3rd-year Software Project Management course. Developed features for posting, editing, and managing peer feedback with JWT authentication for security. Used React.js, Node.js, Express.js, MongoDB, and Tailwind CSS. Practiced effective teamwork, version control (GitHub), and project management.
Key Skills: Node.js, Express.js, React.js, MongoDB, JWT, Tailwind CSS, GitHub, Project Management

- **Dev-Link — Mobile Application:** 3rd-year User Experience Engineering project focused on building a mobile job application platform. Led the design and development of job posting and application modules, including PDF upload functionality. Built the app using React Native, TypeScript, and MongoDB for data management. Applied skills in Figma, CSS, GitHub, and teamwork.
Key Skills: React Native, TypeScript, MongoDB, Node.js, Express.js, Figma, CSS, GitHub
- **Microservice & Cloud Computing Project (2025):** Designed and deployed a secure, containerized authentication microservice for an e-commerce platform using modern DevOps and DevSecOps practices on Google Cloud Platform (GCP). Developed JWT-based authentication, role-based access, and secure credential storage with Node.js, TypeScript, Express.js, and MongoDB. Containerized with Docker, deployed on Kubernetes using GCP Cloud Run, with CI/CD pipelines and Snyk security scanning.
Key Skills: Node.js, TypeScript, Express.js, MongoDB, Docker, Kubernetes, GCP, CI/CD, DevSecOps, GitHub

Non-Related Referee

Dr. Sanvitha Kasthuriarachchi (PhD)

Head - First Year Division
Assistant Professor - FOC
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