Thilina Rodrigo

Software Engineer Intern

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Professional Summary

Motivated Computer Science undergraduate with hands-on experience in Java, Spring Boot, React.js, and mobile application development using React Native (Expo). Actively involved in a CNN-based research project, including training deep learning models and integrating them into a React Native mobile application for real-world use. Possesses a solid understanding of full-stack development, RESTful APIs, and cross-platform mobile development, with a strong interest in building scalable and efficient software solutions. Demonstrates strong problem-solving, teamwork, and communication skills, and is eager to gain industry exposure as a Software Engineer Intern while continuously expanding technical expertise.

Education

Bachelor of Computer Science
University of Ruhuna, Sri Lanka
GPA: 3.81 / 4.00

Technical Skills

Programming Languages: Java, JavaScript
Frameworks and Libraries: Spring Boot, React.js, Tailwind CSS, React Native
Databases: MySQL, PostgreSQL
Tools and Platforms: Git, GitHub, Docker, AWS

Projects

Enterprise Resource Planning (ERP) System – Final Year Project *Ongoing*
Technologies: Spring Boot, Spring Security, JWT, Redis, PostgreSQL, React, TypeScript, shadcn/ui, Zustand
github.com/ZentroThread

- Developing a real-world ERP system to manage core business operations
- Implemented secure authentication and role-based authorization using Spring Security and JWT
- Integrated Redis for caching and performance optimization
- Built a modern frontend using React, TypeScript, shadcn/ui, and Zustand
- Integrated WhatsApp messaging services for automated notifications
- Implemented a Retrieval-Augmented Generation (RAG) application for intelligent data access

AI-Powered Plant Disease Detection Mobile App *Ongoing*
Technologies: React Native (Expo), TensorFlow, CNN, FastAPI
GitHub Repository

- Developed a cross-platform mobile application using React Native with Expo
- Trained and evaluated a CNN-based image classification model for rice leaf disease detection
- Integrated the trained model via FastAPI for real-time inference
- Implemented image capture, preprocessing, and confidence-based result display
- Optimized inference latency and mobile UI experience