SUJITHA PERERA

COMPUTER SCIENCE UNDERGRADUATE

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ABOUT

Motivated and dedicated fourth-year Computer Science undergraduate with a solid understanding of software engineering principles. Skilled in full-stack web development and experienced in designing scalable, efficient, and user-friendly applications. Passionate about applying Artificial intelligence (AI) and Machine learning (ML) to develop intelligent and impactful real-world solutions.

Currently seeking internship opportunities or entry-level roles to further develop technical expertise and contribute to innovative projects. Recognized for quick learning, adaptability, and good communication skills, with a strong desire to learn, grow, and deliver value through a solid foundation in modern software development practices

EDUCATION

BSc. (Hons) in Computer Science and Technology (Undergraduate) **2022–2026 (Expected)**
Sabaragamuwa University of Sri Lanka, Belihuloya, Sri Lanka.
CGPA: 3.35

G.C.E Advanced Level in Physical Science stream (2020)
ICT-B | Combined Maths-S | Physics-C

PROJECTS

AI-Based Smart Agriculture Monitoring Web Application (SmartAgri)

Developed a full-stack web application for smart farming with real-time weather monitoring and an AI-based future weather prediction system. Implemented an LSTM deep learning model trained on a Kaggle weather dataset to forecast future weather conditions and predict potential weather risks using the trained model. The platform includes a crop evaluation dashboard, interactive data visualizations, and automated alerts. Built a scalable backend with REST APIs and secure authentication.

Technologies: React, Node.js, Express, MongoDB, Flask API, TensorFlow, Tailwind CSS, Shadcn, JWT, Bcrypt, Nodemailer, Chart.js

Full-Stack Movie Dashboard (CineScope)

Developed a full-stack movie dashboard using Next.js, React, and MongoDB with secure authentication via Better Auth. Implemented CRUD operations to manage movies, genres, and user data, and integrated a welcome email system for new users. Designed a responsive and modern UI using Tailwind CSS and Shadcn components. Deployed the project live on Vercel for real-time access and usability

Technologies: Next.js, React ,Node.js, MongoDB, Better Auth, TailwindCSS, Shadcn, Vercel

AI-Powered Chatbot Web Application

Developed a fully interactive chatbot web application using pure React embedded directly in an HTML document with custom CSS for a responsive and user-friendly interface. The backend is powered by Node.js and Express, handling API requests and communicating with the free DeepSeek API to generate AI-powered responses in real-time. Implemented dynamic message rendering using React components and a visually appealing chat UI for enhanced user experience.

Technologies: React.js, HTML, CSS, Node.js, Express.js, OpenRouter DeepSeek API

Task Management System

Developed a full-stack web application for managing tasks with secure user authentication and role-based access. Users can create, update, delete, and mark tasks as completed, as well as filter tasks by status and priority, sort by due date, and navigate using pagination. The system uses JWT-based authentication and integrates a MySQL database with REST APIs for efficient frontend–backend communication.

Technologies: Java, Spring Boot, JWT Security, MySQL, Next.js, React, Axios, TailwindCSS, Maven

E-Commerce Web Application (Ongoing)

Developing a full-featured e-commerce web application using React and TypeScript, implementing product listing, shopping cart, and checkout functionalities. Building both frontend and backend with a focus on responsive UI, type safety, and modular architecture, enabling users to browse products, add items to the cart, and simulate order flow using REST APIs.

Technologies: React, TypeScript, Node.js, Express, REST API

Leave Management System

Developed a full-stack web application to manage employee leave requests with role-based access for employees and managers. Implemented secure authentication, REST APIs, and a responsive UI for requesting, tracking, and approving leaves.

Technologies: Golang (Gin), PostgreSQL, React, Tailwind CSS, GORM, JWT, bcrypt

TECHNICAL SKILLS

Programming: **JavaScript, TypeScript, Java, Python, Go**

Database: **MySQL , PostgreSQL , MongoDB, Redis**

Web Development: **Spring Boot**, **React , Express.js , Node.js , Next.js , HTML , CSS , Tailwind CSS**

Tools & Platforms : **Git , GitHub , VS Code , Android Studio, IntelliJ IDEA, Figma**

DevOps: **Docker, CI/CD (GitHub Actions), AWS(Basics)**

Development Practices: **OOP, Agile Methodology, Data Structures & Algorithms (DSA)**

CERTIFICATIONS

Introduction to Networking and Cloud Computing -Coursera

JavaScript Master Course From Beginner To Expert Developer-Udemy

Certification In React JS Master Course- Epic Learn Institute of Higher Education

Python Basics -KodeKloud

REFERENCES

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