

THEVINDU PESARA

Software Engineer

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PROFILE

Aspiring Backend Engineer with hands-on experience in software development through internship exposure. Skilled in **Java, JavaScript, data structures, algorithms, and enterprise frameworks** with a strong understanding of coding best practices, version control, and collaborative software development. Enthusiastic about learning new technologies, contributing to high-quality projects, and delivering efficient solutions in fast-paced environments.

PROFESSIONAL EXPERIENCE

Csquare Technologies, Software Engineer Intern

09/2025 – Present

- Designed and developed **data-driven backend systems** supporting POS, ERP, and operational platforms.
- Built **real-time financial and sales analytics pipelines**, enabling business-level performance monitoring and decision-making.
- Developed **AI-assisted task scheduling logic** to optimize operational workflows and resource allocation.
- Designed and optimized **relational database schemas (MySQL)** with a focus on data integrity, performance tuning, and scalability.
- Implemented **API integrations** to automate system-to-system data flow and digital workflows.
- Worked closely with software engineers to improve **system architecture, backend performance, and maintainability**.
- Assisted in **debugging, data validation, and performance optimization** of production systems.

EDUCATION

BSc (Hons) in Information Technology,

Sri Lanka Institute of Information Technology (SLIIT)

2023 – Present

- Faculty of Computing

Current Undergraduate | Completed Coursework includes Software Engineering Principles, Object-Oriented Programming, Data Structures & Algorithms, Database Systems, Data Science and Analytics

G.C.E. Advanced Level, Mahanama College

2020 – 2023

- Completed [2023]
- Subjects: Business Studies (B), ICT (C), Accounting (C)

G.C.E Ordinary Level, Louvre International School

2009 – 2019

- Completed [2019]
- Results: 4 A's, 3 B's, 2 C's
- Key Subjects: Mathematics(A), English (A), Business Studies (B), ICT (B), Science (C)

SKILLS

- Programming Languages:** JavaScript, Java, Python, PHP
- Frontend:** HTML, CSS, React.js, Next.js, Bootstrap
- Backend:** Node.js, Express.js, Java Servlets, JSP
- Databases:** MySQL, MongoDB
- APIs & Tools:** REST APIs, CRUD Operations, JWT Authentication
- Version Control & Tools:** Git, GitHub, VS Code
- Concepts:** OOP, MVC Architecture, Basic Software Testing & Debugging

PROJECTS

AI Chat Agent (Console-based)

- Developed a conversational AI assistant in Python using LangChain + OpenAI API.
- Implemented a ReAct-style agent executor for dynamic tool calling and streaming responses.
- Ensured secure API integration with dotenv and safe environment variable handling.
- Technologies: Python, Lang Chain, OpenAI API, dotenv, uvicorn

ResumeCritiqueAI (Streamlit Web App)

- Built an interactive Streamlit application that accepts user resumes and provides AI-driven feedback using OpenAI LLM integration.
- Designed frontend components to handle user inputs and suppress onboarding prompts for smoother UX.
- Secured API keys and environment settings with dotenv, and managed app execution efficiently.
- Technologies: Python, Streamlit, OpenAI API, LangChain, dotenv.

Village Bakery POS System

- Developed a Point of Sale (POS) system to manage daily sales, billing, and transaction records. Implemented inventory tracking to monitor stock levels and reduce wastage.
- Designed sales reports to analyze daily and monthly performance. Improved checkout efficiency through a user-friendly interface. Implemented inventory management using MySQL/SQL queries to track stock levels.

FoodWebsiteAndManagement, Ongoing Project

- This project is created to build up a website which is in needed for a small company in Toronto to get started as an online business for the client.
- Technologies: React.js, Node.js, CSS, MongoDB

Online Greenhouse Management System

- Developed a responsive web application using React.js and Node.js, applying database concepts with MongoDB and implementing secure role-based authentication with JWT.
- Created secure payment gateway integration using Stripe API.
- Designed and developed responsive front-end interfaces, ensuring optimal user experience across various screen sizes and devices by following modern best practices.
- Technologies: React.js, Node.js, Express.js, MongoDB, JWT, Bootstrap, CSS.

Online Hotel Management System

- Engineered a Java-based web management system using Servlets, JSP, and MySQL following MVC architecture and OOP principles.
- Implemented CRUD operations and role-based access, improving backend efficiency and maintainability.
- Technologies: Java, JSP, JDBC, SQL, Apache Tomcat

Online Singing Competition Platform

- Developed a user-friendly web platform using PHP, HTML and CSS.
- Utilized MySQL for database management and hosted the system locally with XAMPP, Apache as the web server.
- Applied best practices in front-end design and responsive development to deliver a seamless experience across devices.
- Technologies: PHP, MySQL, XAMPP, Apache Tomcat.

Google Gemini 2.0 Chat App Clone

- Developed a responsive AI chatbot using React.js and Google Gemini API, integrating real-time conversational responses and multi-chat history.
- Strengthened understanding of asynchronous data handling and state management in modern frontend frameworks.
- Technologies: React.js, Google Gemini API, JavaScript, HTML, CSS)

REFERENCES

Buddika Harshanath, Lecturer – Department of Information Technology Faculty of Computing,
SLIIT | Metro Campus ,Qualifications: MIEEE, MCSSL, MCAD, MSc in IT (SLIIT)
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