THEVINDU PESARA

Software Engineer

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PROFILE

Motivated Software Engineering undergraduate with hands-on experience in **backend development, data-driven systems, and scalable application design**. Strong foundation in **Python, SQL, RESTful APIs, data modeling, and database systems** with exposure to **AI-assisted automation, distributed system concepts, and cloud-ready architectures**. Experienced in collaborating with cross-functional teams to design, build, and optimize **data-intensive applications**. Eager to grow as a **data/platform-focused engineer** in a high-impact, product-driven environment.

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,   2023 – Present
Sri Lanka Institute of Information Technology (SLIIT)
- 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

Al Chat Agent (Console-based)
- Developed a conversational Al 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, OpenAl API, dotenv, uvicorn

ResumeCritiqueAl (Streamlit Web App)
- Built an interactive Streamlit application that accepts user resumes and provides Al-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, OpenAl 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 businness 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 Al 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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