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SUMMARY

Versatile Full-Stack Software Engineer with over 1.5 years of professional industry experience and 3+ years of hands-on web development project experience. Experienced in designing and developing scalable frontend and backend solutions across the Software Development Life Cycle (SDLC). Skilled in implementing AI-driven models and conducting research to build accurate and practical real-world applications. A fast learner with strong problem-solving abilities and a passion for exploring modern technologies to create efficient and future-ready software solutions.

SKILLS

- **Programming Languages** - Python (Professional), JavaScript (Professional), Java (3+ years)
- **Backend** - Spring Boot (3+ years), Express.js (Node.js) (Professional), FastAPI (Professional Experience)
- **Frontend** - React (Professional), Angular, Flutter, Tailwind CSS
- **Databases** - PostgreSQL, MySQL, MongoDB, InfluxDB
- **Cloud & DevOps** - Docker, Docker Compose, AWS (EC2, S3), CI/CD, GitHub Actions
- **Testing** - JUnit, Jest, Unit Testing, Integration Testing, API Testing
- **AI/ML** - TensorFlow, PyTorch, Scikit-learn, Transformers, LangChain, LangGraph, LoRA, CrewAI, ChromaDB, FAISS, RAG, Fine-Tuning, CNN, Prompt Engineering
- **Tools & Platforms** - Git/GitHub, Postman, Apache Airflow, Grafana, Hugging Face, n8n
- **Practices** - Agile/Scrum, SDLC, REST APIs, Microservices, UI/UX Principles

EDUCATION

Bachelor of Science in Information Technology (HONS)

Sri Lanka Institute of Information Technology | *September 2020 – September 2024*

WORK EXPERIENCE

Associate Software Engineer (Full-Stack)

Absol X | *December 2025 – Present*

- Designed and developed full-stack applications using React.js and Node.js, building responsive front-end interfaces and robust back-end services.
- Engineered secure, scalable back-end ecosystems with Python and Node.js, implementing stringent data protection protocols for complex system environments.
- Optimized development workflows by researching and successfully integrating emerging technologies and third-party APIs, significantly boosting team productivity.
- Architected and deployed agentic AI systems using multi-agent orchestration frameworks to automate complex, multi step decision-making processes and collaborative workflows

Associate Data Analyst

Inplay Matrix | *April 2025 – December 2025*

- Enhanced strategic decision-making by designing advanced predictive models for customer behavior and churn analysis that directly informed long-term business planning.
- Improved demand forecasting accuracy through the application of sophisticated time-series and regression-based techniques.
- Streamlined data accessibility by developing complex SQL frameworks and query optimizations that transformed large-scale datasets into actionable stakeholder insights.
- Accelerated the deployment of AI/ML initiatives by collaborating with engineering teams to integrate scalable, data-driven models into production environments.
- Boosted system performance and reliability through proactive feature engineering and the identification of high-impact enhancements during daily operations.
- Ensured high-level data integrity and real-time accuracy by conducting detailed exploratory analysis on live sports data streams to detect and resolve anomalies.
- Drove continuous innovation by researching and trialing new system functionalities to evolve existing technical architectures.

Software Engineer

Nextzela Technologies | *February 2024 – May 2024*

- Developed and architected RESTful APIs, ensuring high-performance communication between backend microservices and frontend interfaces.
- Designed and managed NoSQL database schemas using MongoDB, optimizing data storage structures and query performance for scalable applications.
- Led API integration testing, creating comprehensive test scenarios to validate data integrity, security, and seamless end-to-end functionality.

Trainee Software Developer

Bank of Ceylon | *February 2023 – August 2023*

- Architected scalable system foundations by leading the discovery phase and designing optimized database schemas specifically tailored for complex financial and loan frameworks.
- Boosted operational mobility and staff efficiency through the end-to-end design and deployment of high-performing React Native applications for internal and banking use.
- Modernized legacy systems by utilizing UX research to replace antiquated interfaces with responsive, "Experience-First" designs across mobile, tablet, and desktop platforms.
- Streamlined customer financial planning by developing and implementing a real-time MERN-stack loan calculator that integrated intricate financial logic with an intuitive user interface.
- Accelerated development lifecycles by leveraging the MERN stack to deliver full-stack solutions that balanced technical complexity with high visual and functional quality.
- Bridged the gap between business and technology by collaborating directly with stakeholders to transform user requirements into robust, production-ready project architectures.

PERSONAL PROJECTS EXPERIENCE

NewsShield | AI-Powered Explainable Fake News Detection

XAI, Python, TensorFlow, Keras, Bi-LSTM, LIME (XAI), Scikit-learn

- Implemented a high precision hybrid AI system to fight misinformation using Bi-LSTM deep learning, Rule Based heuristics and Explainable AI (XAI). Successfully got 96% accuracy on solving the "Black Box" problem while using real-time transparency layers in machine learning.
- Designed a multi-stage detection system with TensorFlow/Keras, combining a Bidirectional LSTM (Bi-LSTM) with a custom rule-based system for detecting satire, health conspiracy and clickbait patterns.
- Integrated LIME (XAI) to transform complex neural weights into intuitive, word-level confidence charts, ensuring AI decisions are auditable and trustworthy.

IoT-Integrated Freshness Monitoring & Ripeness Classification System

C++, IoT, Deep Learning, Parallel Computing, Python

- Architected an end-to-end IoT framework utilizing C++ firmware and multi-sensor fusion to monitor gas, humidity, and visual indicators for real-time produce quality assessment.
- Engineered low-latency parallel computing pipelines on resource-constrained edge devices, bridging physical sensor arrays with a centralized analytics dashboard for automated freshness monitoring.

MEDIPLUSE – Automated Healthcare & Prescription Platform

React, Node.js, Llama 3 (Grog), Google Gemini, MongoDB

- Developed a GenAI-driven healthcare ecosystem integrating Llama 3 and Google Gemini to automate prescription analysis and provide intelligent, location-aware medical guidance via a 3D virtual assistant.
- Engineered a secure, scalable architecture featuring Role-Based Access Control (RBAC) and a high-fidelity Glassmorphism UI to streamline verification processes and mitigate medical fraud.

REFERENCES

- Thilanka Pathirana: Manager, Innovation Labs, Bank of Ceylon, Head office.thilankabocmkt@gmail.com ,(+94714484649)
- Dulshan Thanthilage: Site Reliability, IFS,dulshan.thanthillage@ifs.com(+94 767123376)