

SALITHA WIJERATHNA

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Software Engineer specialising in blockchain, AI, and backend development. Expertise in MERN stack, AWS infrastructure, and delivering scalable technical solutions.

EDUCATION

Bachelor of Science in Computer Science and Software Engineering | University of Bedfordshire

Degree obtained 2020

- Class – First class honors
- Research: FireProtect – Prevention of Wildfire using IoT

EXPERIENCE

Senior Software Engineer | [XigeniX](#) | Sydney, AUS (Hybrid - Colombo)

Nov 2023 – Present

- Full-Stack Software Engineer - Blockchain development with AWS, CDK, Lambda, Solidity, Ether.js, Node.js.
- AI: Developed a multi-model Natural Language Food Ordering system using Ollama, Google AI, and OpenAI. RAG application with vector embeddings using Pinecone, ChromaDB, Ollama and chat functionality and REST API Design. Created N8N-OpenAI chat workflow with context management for proof-of-concept demos.
- **SKY AI**: Architected a scalable, multi-tenant enterprise AI assistant using Amazon Q Business for [SMATA Technologies](#), leading cloud architecture and infrastructure provisioning with AWS CDK. Designed modular, extensible components to support multi-organisation scaling. Implemented prompt fine-tuning, meta-prompting, OpenAPI-based plugin integrations, and structured prompt frameworks for consistent, production-ready AI responses.
- Developed and implemented an MCP with the Claude desktop app to provide access to in-house services, optimising tool execution and context handling to reduce latency and improve response times.
- **MyCarbon**: full-stack carbon footprint platform with frontend, backend, blockchain integration and custom smart contracts; integrated [Lokblok](#) Toughbox wallet security deployed on L2 EVM, Arbitrum.
- Deployed and spearheaded company-wide SonarQube for automated code quality and security analysis.

Software Engineer | [Block-Stars](#) | Seoul, South Korea (Remote)

June 2021 – Nov 2023

- MERN Stack & Web3 Developer: Built web applications using MERN stack, Web3.js, and Solidity for decentralised projects; contributed as Project Lead.
- Web3 Tools: Created Token Generator for ERC20 contract deployment; rebranded MetaMask extension to StarApple with Polygon integration and custom token implementation; Multiple NFT and Trading platforms.
- Trading Platform: Built Future-Trading platform for KOSPI/KOSDAQ with a middle server managing Ebest API connections and a CRON job for KRX daily stock data collection and storage.
- GREEN P2P: MERN stack custodial crypto wallet with Tatum.io integration enabling gas-free P2P transactions. Dockerized and deployed on a Linux server.

Freelance Software Engineer | [iSotek](#), [Upwork](#) | Remote

Jan 2020 – April 2022

- Freelance Software Engineer: Delivered tailored solutions for diverse clients using MERN, PHP, Python, and Go; explored Web3 and Machine Learning for cutting-edge implementations.
- Blockchain Projects: Built "DIG-NFT" decentralised marketplace on XRPL ledger (non-EVM); developed "MathBuddy" mobile app backend with Node.js, Express, and MongoDB Atlas.
- Cross-Platform Development: Created "Math Game" educational application using Java SE, NetBeans, MySQL; built "Clothing Predictor" ML model with Python, Scikit-learn, Pandas, FastAPI.

SKILLS AND TECHNOLOGIES

JavaScript, TypeScript, Node.js, Express.js, Web3.js, Ethers.js, Python, FastAPI, REST, PHP, Wallet Security, LLM, N8N, AWS, Nginx, Solidity, Smart Contracts, EVM, L2, DeFi, Ethereum, Ollama, OpenAI, Google AI, NLP, LangChain, RAG, Model Training, MCP, Docker, CI/CD, SQL, MongoDB, ChromaDB, Pinecone, DynamoDB, EC2, S3, Route 53, AWS Lambda, Meta-Prompting, TTS, STT, Guardrails
