

SALITHA WIJERATHNA

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Software Engineer specializing 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 June 2020

- Class – First class honors
 - Research: FireProtect – Prevention of Wildfire using IoT
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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
- [MyCarbon](#): full-stack carbon footprint platform with frontend, backend, blockchain integration and custom smart contracts; integrated [Lokblok](#) Toughbox wallet security.
- AI: Developed multi-model Natural Language Food Ordering system using Ollama, Google AI, OpenAI. RAG Application implemented with Pinecone, ChromaDB, vector embeddings, N8N, Ollama and chat agent functionality.
- Implemented SonarQube company-wide for 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 decentralized 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.
- Trading Platform: Built Future-Trading platform for KOSPI/KOSDAQ with middle server managing Ebest API connections and CRON job for KRX daily stock data collection and storage.

Freelance Software Engineer | iSotek, Upwork | Remote

Jan 2020 – April 2022

- Freelance Software Engineer: Delivered tailored solutions for diverse clients using MERN, PHP, Python, GO; explored Web3 and Machine Learning for cutting-edge implementations.
 - Blockchain Projects: Built "DIG-NFT" decentralized marketplace on XRPL ledger (non-EVM); developed "MathBuddy" mobile app backend with Node.js, Express, MongoDB Atlas.
 - Cross-Platform Development: Created "Math Game" educational application using Java SE, NetBeans, MySQL; built "Cloth Predictor" ML model with Python, Scikit-learn, Pandas, FastAPI.
 - R&D Initiatives: Explored emerging technologies including CockroachDB, MongoDB Realm, AWS, Docker for market-ready solutions.
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SKILLS AND TECHNOLOGIES

JavaScript, TypeScript, Node.JS, Express.JS, Web3.JS, Python, FastAPI, PHP, Wallet Security, LLM, N8N, AWS, Nginx, Solidity, Smart Contracts, Ollama, OpenAI, Google AI, NLP, LangChain, RAG, Docker, CI/CD, SQL, MongoDB, ChromaDB, Pinecone, DynamoDB, EC2, S3