

Dhanuja Thishakya Samaranayake

Software Engineer | Graduate in Software Engineering

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Full-Stack Developer and BEng (Hons) Software Engineering Graduate with experience building scalable web applications using the MERN stack, Next.js, NestJS, and TypeScript. Skilled in AWS cloud services, Docker containerization, and CI/CD pipeline implementation, with a strong focus on modern software development and deployment practices. Familiar with blockchain and Web3 technologies, including Solidity smart contract development.

Work Experience

Trainee Software Engineer

June 2024 – June 2025

Web3 Genes - Colombo, Sri Lanka (Remote)

- Built scalable full-stack applications using Next.js, NestJS, Node.js, MongoDB, and TypeScript in a microservice architecture.
- Deployed services on AWS EC2 with Docker for efficient development and deployment.
- Integrated AWS services including Rekognition (facial analysis), KMS (data encryption), and S3 (asset storage).
- Developed decentralized apps on Ethereum, Polygon, and Hedera: NFT lottery, and NFT token platform.
- Wrote and integrated Solidity smart contracts using Web3.js and Ethers.js.
- Contributed to agile processes: sprint planning, standups, and code reviews.

Freelance Developer (Web & Blockchain)

Nov 2021 – Present

- Built responsive websites using React, Next.js, WordPress, and modern web tech.
- Delivered 100+ NFT collections with Solidity smart contracts and custom minting dApps.
- Developed dApps on Ethereum/Polygon using Web3.js, Ethers.js, and IPFS.
- Optimized websites for SEO, performance (SSR), and accessibility.
- Implemented mobile-first, cross-device designs with clean UI/UX.
- Handled full-cycle project delivery for international clients.

Education

Software Engineering (BEng) Graduate

Sep 2022 – Sep 2026

University of Westminster affiliated with Informatics Institute of Technology.

Primary and Secondary Education

2008-2021

Rahula College Matara

GCE A/L 2021 Common Stream (Combined Maths + ICT)

Projects

Ballot3 - Internal Project at Web3 Genes

2024

Developed a scalable voting platform using NestJS microservices with TCP communication and Redis for asynchronous processing. Designed and implemented a multi-tenant architecture to ensure secure organization-specific data isolation. Integrated AWS Rekognition Face Liveness for voter identity verification and leveraged AWS services for deployment and infrastructure management. Contributed to CI/CD pipeline implementation, containerization with Docker, and backend performance optimization. Also supported frontend development using Next.js, MUI, and Redux, while integrating blockchain-based transaction functionality.

HR Management System - *Internal Project at Web3 Genes*

2024

Developed an HR management system with a secure, modular backend built in NestJS, implementing client-side field-level encryption in MongoDB for sensitive data. Integrated AWS Rekognition for face liveness verification during employee onboarding. Contributed to a responsive React (Vite) frontend using MUI and utilized Redis for caching and real-time data optimization.

TrustChain - *Internal Project at Web3 Genes*

2024

Developed a decentralized charity platform using Hedera HCS for transparent donation tracking and audit logs. Built both frontend and backend with Next.js and NestJS, integrating MongoDB for data storage. Implemented Google Meet, Google Calendar, and Firebase Authentication for meetings and secure user management. Ensured SEO optimization and SSR in Next.js, using ShadCN UI and Redux for consistent design and state management.

Skills

Frontend:

Next.js, React.js, Vite, JavaScript, TypeScript, Redux, MUI, ShadCN UI, HTML, CSS, Ant Design

Backend & API Development:

NestJS, Node.js, Express.js, MongoDB, PHP, REST API, Microservices, Redis

Blockchain & Web3:

Solidity, Smart Contracts (Upgradable/Proxy Pattern), Chainlink VRF, Hedera HCS, Ethers.js, Web3.js, NFT Minting, Polygon, Ethereum

DevOps & Cloud:

AWS EC2, S3, Amplify, KMS, Rekognition (Face Liveness), GitHub Actions, CI/CD Pipelines

Authentication & Security:

Firebase Auth, Field-Level Encryption (MongoDB), JWT, Multi-Tenant DB Architecture

Other Tools & Technologies:

Git, Docker, Google Calendar API, Google Meet Integration, SEO Optimization, SSR (Server-Side Rendering)

Certificates

- Certified Hashgraph Developer Course – [Credential URL](#)
- DeFi Deep Dive – [Credential URL](#)
- AI/ML Stage 2 – Centre for Open and Distance Education - SLIIT – [Credential URL](#)
- Professional Practice in Software Development – Open Learning Platform, University of Moratuwa – Verification Code: Z1xNi4q2d6 – [Verification Link](#)
- Certificate Programme on Cyber Security and Digital Forensic – SLIIT Professional Development Programme.

References

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