

Hiruni Thaksarani

Software Engineer | BEng (Hons) Software Engineering Graduate

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hiruni.me



First Class BEng (Hons) Software Engineering Graduate with professional experience building scalable full-stack web applications using the MERN stack, React, Next.js, NestJS, and MongoDB. Skilled in developing responsive user interfaces, designing RESTful APIs, and building secure backend services within cloud-native and microservices architectures. Experienced in integrating third-party services, optimizing application performance, and delivering clean, maintainable, and high-quality software solutions, with additional exposure to blockchain technologies and decentralized applications.

Work Experience

Trainee Software Engineer

June 2024 – June 2025

Web3 Genes - Colombo, Sri Lanka (Remote)

Built scalable full-stack applications using Next.js, NestJS, MongoDB, and TypeScript within a microservices architecture. Developed responsive user interfaces, secure backend services, and RESTful APIs while optimizing application performance and maintainability. Gained experience integrating blockchain technologies and smart contracts into web applications.

Freelance Developer

Nov 2024 – Present

Developed full-stack web applications by building responsive frontend interfaces and scalable backend services. Designed and integrated RESTful APIs, worked with databases, and contributed to secure, high-performance applications while ensuring accessibility, maintainability, and responsive user experiences.

Education

BEng (Hons) Software Engineering - First Class

Sep 2022 – Jul 2026

University of Westminster, affiliated with the Informatics Institute of Technology (IIT).

Diploma in English - ESOF Metro College

2021 – 2022

Successfully completed a comprehensive English diploma program, equipping me with strong language skills and effective communication abilities to excel in diverse professional environments.

GCE A/L - Ferguson High School Ratnapura

2018 – 2021

Physical Science Stream

Projects

HR Management System

Contributed to the development of a scalable HR management platform by building responsive employee onboarding and profile management interfaces using React (Vite) and MUI. Integrated AWS Rekognition Face Liveness for secure identity verification, collaborated with NestJS backend services and MongoDB APIs, and supported performance optimization through Redis caching to deliver secure, maintainable, and user-friendly application features.

Tech Stack: NestJS, MongoDB, AWS Rekognition, React, MUI, Redis

Ballot3 - Internal Project at Web3 Genes

Developed responsive and high-performance frontend interfaces using Next.js, React, MUI, and Redux within a NestJS microservices architecture. Built reusable and maintainable UI components, integrated RESTful APIs from multiple microservices, implemented efficient state management, and collaborated on Web3.js and Solidity integration to enable secure blockchain-based voting while ensuring scalability, reliability, and a seamless user experience.

Tech Stack: NestJS, Next.js, React, Redux, MUI, MongoDB, Microservices, Solidity, Web3.js, Redis

TrustChain - Internal Project at Web3 Genes

Developed a decentralized charity platform focused on transparency and user engagement by building responsive interfaces with Next.js, React, Redux, and ShadCN UI. Implemented donation and activity tracking workflows, contributed to NestJS backend services and MongoDB, and integrated blockchain and external services to deliver secure, scalable, and traceable application features.

Tech Stack: NestJS, Next.js, React, Redux, ShadCN UI, MongoDB, Solidity, Web3.js, Google APIs

Skills

Programming Languages

TypeScript, JavaScript, Java, Python, PHP, SQL

Frameworks & Libraries

Next.js, React, NestJS, Node.js, Express.js, Redux, MUI, ShadCN UI, Tailwind CSS, Vite

Web Technologies

HTML5, CSS3, RESTful APIs, Microservices, JWT Authentication, Firebase Authentication, SEO

Databases & Storage

MongoDB, MySQL, Redis, Mongoose, PostgreSQL

Cloud & DevOps

AWS EC2, AWS S3, AWS Rekognition, Docker, Git, GitHub Actions, CI/CD, Vercel

Blockchain

Solidity, Ethereum, Polygon, Hedera HCS, Web3.js, Ethers.js, Smart Contracts

Soft Skills

Teamwork, Problem Solving, Time Management, Leadership, Communication

Certificates

- Professional Practice in Software Development – Open Learning Platform, University of Moratuwa – Verification Code: RTmC1PGWT3 | [Verification URL](#)
- Front-End Web Development - Open Learning Platform, University of Moratuwa – Verification Code: EUELY3PCHO | [Verification URL](#)
- AI/ML Stage 2 – Centre for Open and Distance Education - SLIIT – [Credential URL](#)
- SQL (Intermediate) – HackerRank - [Credential URL](#)
- DeFi Deep Dive – [Credential URL](#)
- Certified Hashgraph Developer Course – [Credential URL](#)

References

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