

THUSARAKA PALLIYEGURU

thusaraka@yahoo.co.uk | [linkedin.com/in/thusaraka](https://www.linkedin.com/in/thusaraka) | github.com/thusarakap | +94 74 1202 084 | Portfolio: thusaraka.com

First Class Honours Computer Science graduate from the University of Westminster with commercial experience developing Flutter, React, Next.js, and cloud-based applications. Experienced in full-stack software engineering, machine learning, and computer vision, with proven success delivering client software and a top-ranked final-year project.

AWARDS & ACHIEVEMENTS

- **Final Year Project - Top Project (2026)**, IIT (University of Westminster, UK)
- **Cutting Edge 2026 (IIT) - 2nd Place** (Computer Science)
- **National Best Quality Software Awards 2026 (NBQSA)** - Shortlisted
- **Xcellerate Inter-University Ideathon Hackathon 2026** - Shortlisted (pending event)

WORK EXPERIENCE

Software Engineer Intern | Axcertro (Pvt) Ltd. (2024 - 2025)

- Developed and maintained cross-platform Flutter applications for web and mobile, implementing responsive user interfaces, integrating REST APIs, resolving defects, and delivering production-ready features based on client requirements.
- Gathered and refined client requirements through direct communication, translating business needs into technical solutions.
- Worked in Agile sprints using Jira, Zoho and GitHub, participating in planning, code reviews, and feature delivery.
- Developed and executed Flutter widget and integration tests, alongside manual testing, to ensure application reliability and functionality.
- Contributed to DevOps processes, including deployment and monitoring of applications hosted on Google Cloud, and integrated Google Analytics for usage tracking.

Web Developer | Web Genesis (Pvt) Ltd. (2023 - 2024)

- Designed and maintained client websites, working to agreed timelines and budgets while managing client communication directly.
- Collaborated with a small development team to deliver responsive, user-friendly solutions tailored to each client's requirements.

KEY PROJECTS

VORMA - Final Year Project (2026 Top Project - IIT) (2025 - 2026)

Solo Researcher & Developer | Python, TypeScript, Next.js, FastAPI, PyTorch, RTMPose, ONNX Runtime, OpenCV, NumPy

- Designed and developed a computer vision pipeline using OpenCV, RTMPose, and LSTM-based deep learning models to analyse gait videos and generate personalised orthotic insole recommendations.
- Developed a full-stack web application using Next.js, TypeScript and FastAPI that integrated the machine learning pipeline into an end-to-end platform for gait analysis and personalised orthotic recommendations.
- Implemented preprocessing, feature extraction, cross-validation, and statistical analysis for model performance and result evaluation.
- Implemented automated testing using Pytest and Playwright to validate system functionality, end-to-end workflows, and reproducibility, improving overall system reliability.

SoundSculpt - Second Year Group Project (2023 - 2024)

Group Leader | JavaScript, Electron, Node.js, Firebase, Kotlin, HTML, CSS, XML

- Led a team through the full software development lifecycle, coordinating task allocation, sprint planning, and project delivery.
- Oversaw integration of application components, conducted code reviews, and ensured successful delivery within project deadlines.
- Developed desktop and mobile application features using Electron, Node.js, Firebase, and Kotlin, collaborating across frontend and backend components.
- Wrote unit tests using Jest to verify application functionality and ensure software reliability.

Additional Projects: Health System API (Java), Real Estate & Pet Supplement e-commerce sites (React/Next.js), FlagGuesser & Football Club Info (Kotlin), and more available on [GitHub](#).

TECHNICAL SKILLS

Languages: Java, Python, Kotlin, JavaScript, TypeScript, SQL

Frameworks: Flutter, React, Next.js, Node.js, FastAPI, Tailwind CSS

AI / Machine Learning: PyTorch, ONNX Runtime, OpenCV, MediaPipe, NumPy

Cloud & Tools: Git, GitHub, Google Cloud, Firebase, Jira, Figma, AI-assisted software development

Testing: JUnit, Pytest, Playwright, Flutter Test, Integration Testing, End-to-End Testing, Manual Testing

EDUCATION

BSc. Computer Science (Hons) - First Class Honours, 2022 - 2026 (pending graduation)

University of Westminster (UK)

CERTIFICATIONS: Networking Basics (CISCO, 2022), Java Programming (SLIIT, 2022)

LANGUAGES: English (Native), Sinhala (Native)