

# Harishanan Thevarajah

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## PROFILE

MSc Advanced Software Engineering student at the University of Leicester with hands-on experience in full-stack development and AI-powered applications. Skilled in building responsive frontends, scalable backends, and integrating APIs like OpenAI and Gemini. Passionate about creating intelligent, impactful systems and contributing to fast-paced, mission-driven teams. Eager to advance the software skills in a placement or intern opportunity, contributing to innovative engineering solutions.

## EDUCATION & QUALIFICATIONS

### MSc Advanced Software Engineering with Industry, University of Leicester, UK Sep 2024 – Jan 2027

- **Ongoing Modules:**
  - Analysis and Design of Algorithm
  - Service Oriented Architecture
  - Generative Development
  - Personal and Group skills
- **Completed Modules:**
  - Software Measurement and Quality Assurance
  - Mobile and Web Applications
  - Agile Cloud Automation
  - Internet and Cloud Computing

### BEng (Hons) Computer Engineering, University of Greenwich, UK

Sep 2021 – June 2024

- First Class Honours degree.
- Advanced Mathematics for Engineering 95%.
- Nominated and shortlisted by faculty as the Best Performing Student.
- Placed in top 5 in the Engineering Without Borders UK (EWB team presentation).

## SKILLS

- Front end Technologies : HTML, CSS, JavaScript, React, Tailwind CSS, Bootstrap, Next.js (learning)
- Back end Technologies : Java, Spring Boot, Node.js, REST API development
- Databases : MySQL, PostgreSQL, MongoDB
- Tools and DevOps : Git, GitHub, AWS, Docker, Postman, Netlify, Render, Neon
- Software Architecture : Spring MVC, Spring Microservice, Model Driven Architecture, SOA
- Other : DSA, AI Agent, Web Sockets, Agile, Linux

## Projects and Experiences

- **Shangri-La Petition Platform (SLPP) (React, Spring Boot, MySQL)**  
Developed a full-stack petition platform with MVC architecture using React and Bootstrap for a responsive frontend, and Spring Boot, MySQL, and REST API for a scalable backend. Enabled user roles, petition management, and data visualisation with Axios, Cookies.js and Chart.js.
- **End-to-End Deployment: Building a To-Do List App (React, Spring Boot, PostgreSQL)**  
Developed a full-stack To-Do app with React (Vite), Spring Boot, and PostgreSQL. Deployed using Netlify, Render, Neon and Docker with secure environment configs, Maven builds, and CORS for scalable, responsive task management.
- **Gen AI: Image, Chat, and Recipe Generator (React, Spring Boot, Open AI)**  
Programmed a full-stack AI application for generating images, chats, and personalized recipes using React, Vite, and Bootstrap for a responsive UI, and Java, Spring Boot, and Spring AI for a robust backend. Integrated Open AI API and optimized endpoints with Postman for real-time performance.
- **Subscription Tracker API Clone – (Node.js, Express, MongoDB, JWT)**  
Built a secure RESTful API for managing user subscriptions with JWT authentication and dynamic workflow logic for tracking billing cycles. Integrated QStash for scheduling automated email reminders via Nodemailer, enabling asynchronous, reliable notification delivery.
- **OAuth2 Authentication System (Spring Boot, React, OAuth2)**  
Developed a full-stack secure authentication system with Spring Boot, Spring Security, and OAuth2 for GitHub and Google login. Built a responsive React (Vite) frontend, managing token-based sessions and CORS policies.

- **AI-Powered Gmail Extension (React, Spring Boot, Gemini API)**  
Built a Chrome extension for AI-driven email drafting in Gmail using React, MaterialUI, and JavaScript for the frontend, and Spring Boot with Spring AI for backend integration with Google Gemini API, leveraging Axios and Mutation Observer APIs.
- **Multi-User Chat App (Java, Spring Boot, WebSocket, STOMP, Thymeleaf)**  
Developed a real-time chat app using Spring Boot WebSocket with SockJS and STOMP. Implemented message broadcasting, session handling, and a dynamic UI with Thymeleaf and JavaScript to support multi-user communication.
- **Analysis and Design of Algorithms (Pseudo code, Dynamic Programming ) – 87%**  
Implemented an optimal well placement algorithm under budget and distance constraints using dynamic programming, improving population benefit over greedy methods and achieving O(nH) efficiency.
- **Application Deployment Automation using AWS SDK (Xtext, EMF, Groovy, AWS SDK) – 83%**  
Created a DSL for automating AWS EC2 web app deployment. Utilised Xtext, EMF, and Groovy for code generation and AWS SDK integration. Automated tasks like EC2 setup, GitHub cloning and environment configuration with testing error handling and efficiency improvements.
- **Textile Management App (MySQL, Oracle Apex, Wireframe) – 91%**  
Developed a web-based management system using Oracle APEX and MySQL to help textile managers track shipping, orders, employees, and quality control, achieving a 91% for solving real-world operational challenges.
- **UK Traffic Data Analysis (Groovy, MongoDB, 2024) – 90%**  
Built Groovy scripts and MongoDB aggregation pipelines to analyse and visualise eco-friendly vs non-ecofriendly vehicle usage from UK traffic data (Kaggle, 2024). Optimised performance with pagination, caching, and query optimisation for scalability.

## CERTIFICATIONS

- Java programming with Object Oriented – Continuing Professional Development, May 2025.
- Front-End Web Development – University of Moratuwa, Apr 2025.
- Web design for Beginners – University of Moratuwa, Apr 2025.
- Software Quality Assurance, Foundation Level – Continuing Professional Development, Jan 2025.
- Introduction to DevOps – EC-Council, Aug 2024.

## LANGUAGES

- English - Proficiency
- Tamil – Fluent

## INTERESTS

- Technology and continuous learning
- Travelling
- History
- Cricket