Priyangan Vasantharajan

Aspiring AI & Robotics Engineer
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Profile

Computer Science with Artificial Intelligence student at Birmingham City University and incoming AI Software Engineering Intern at Iterate.ai, a US-based AI technology company (United States), focusing on software design and development, data analytics, Large Language Models (LLMs) and model fine-tuning. Strong passion for AI, software engineering, robotics, electronics and innovation, with hands-on experience in Python, JavaScript, React, FastAPI, Node.js, databases, REST APIs, AI agents, Arduino and electronics, building complete systems from interface design to backend development, hardware integration and deployment. Before university, ran an electrical and CCTV business in Sri Lanka as Director, developing strong leadership, business management, communication and practical problem-solving skills. Long-term goal: to work at the intersection of AI, software, robotics and intelligent hardware.

Education

Birmingham City University — Birmingham, UK
BSc (Hons) Computer Science with Artificial Intelligence — *Jan. 2026 – Present*
- Focusing on Artificial Intelligence, Machine Learning and Software Engineering.

AICT Campus — Sri Lanka
Advanced Diploma in Information Technology — *Jun. 2021 – Dec. 2023*
- Covered networking, programming, systems and database management.

National School Mu/Yogapuram M.V — Sri Lanka
GCE Advanced Level – Physical Science Stream — *2016 – 2020*
- Ranked 9th in the district in the 2019 GCE A/L examination and selected to study Physiotherapy at the University of Peradeniya.

Professional Experience

AI Software Engineering Intern — Starting Nov. 2026
Iterate.ai — *United States*
- Selected for an AI Software Engineering Internship at Iterate.ai, a US-based AI technology company.
- Will contribute to software design and development of AI-driven applications using modern engineering practices.
- Will work with Large Language Models (LLMs), including model fine-tuning and Generative AI solutions.
- Will apply data analytics to process, analyse and draw insights from data for intelligent software solutions.

Director — Jan. 2020 – Jan. 2026
DC Electricals — *Sri Lanka*
- Directed business operations including planning, procurement, project coordination and team management.
- Delivered 1,200+ electrical installation projects across Sri Lanka with a strong focus on quality and customer satisfaction.
- Built long-term client relationships; earned Hikvision Co-Brand Recognition in 2025.

Chief Electronics Technician — May 2021 – Dec. 2025
Hypers Lab (Pvt) Ltd — *Sri Lanka*
- Installed, configured and maintained CCTV and electronic security systems for commercial clients.
- Diagnosed electronic faults and implemented reliable repair and maintenance solutions.

Special Appointment Teacher — Jan. 2020 – Apr. 2022
National School Mu/Yogapuram M.V — *Sri Lanka*
- Taught Information Technology and Science to Grade 11 students through practical, technology-focused lessons.

Selected Software & Technical Projects

Vinayagamoorthy Jothidam – AI Astrology Platform | *React, FastAPI, MongoDB Atlas* 2026 – Present
- Full-stack astrology platform with Jathagam calculation, Rasi and Nakshatra details, 22 Porutham matching, Dasa/Bhukti, Panchangam and planetary transits.
- Built an AI agent that answers natural-language questions and interprets Jathagam charts with context-aware responses.
- REST APIs in FastAPI with MongoDB Atlas, JWT-based authentication, input validation and protected endpoints.
- Shipped as a Progressive Web App and Android TWA; now publicly available on Google Play.

MR DOC – Business Management System | *JavaScript, Node.js, Express.js, MongoDB Atlas* 2026
- Platform for managing purchases, loans, customers, rent, food and salary records, with invoice generation and transaction history.
- Analytical dashboards for income, expenses and net profit, plus administrative user management.

DC Stock Manager – CCTV Inventory System | *JavaScript, Node.js, Express.js, MySQL* 2026
- Inventory system for 150+ CCTV and security products with stock-in/stock-out, low-stock alerts and transaction history.
- PDF invoice generation, automatic financial calculations, role-based users, protected routes and activity tracking.

INNOVATE-X – Smart Adaptive Temperature Control System | *Arduino, IoT, Sensors* 2026
- University team prototype that automatically heats, cools and runs a fan from live temperature readings using Arduino Uno and sensors.
- Presented at the University Innovation Exhibition 2026; explored Wi-Fi monitoring and IoT integration for energy efficiency.

Hospital & Employee Management Systems | *Python, OOP, MySQL, GUI* 2026
- Python desktop applications managing doctor, patient and employee records with full create, update, search and delete operations.
- Applied object-oriented design, modular development and relational database integration.

Technical Skills

Languages: Python, JavaScript, Java, C#, SQL, HTML5, CSS3
Frontend: React, Vite, Tailwind CSS, Responsive Web Design
Backend: FastAPI, Node.js, Express.js, REST APIs, JWT Authentication
AI & Data: AI Agents, Machine Learning Concepts, Data Processing
Databases: MongoDB Atlas, MySQL
Cloud & Tools: Git, GitHub, Cloudflare Workers, PWA, Android TWA, Postman, VS Code
Electronics & Hardware: Arduino, Raspberry Pi, Microcontrollers, IoT, Circuit & PCB Design, CCTV Systems, Electrical Wiring

Certificates & Courses

Python Programming – The Coding X	Jun. 2026
Web Development – The Coding X	Apr. 2026
Enterprise Design Thinking Practitioner – IBM SkillsBuild	2026
Web Development Fundamentals – IBM SkillsBuild	2026
Programming Certificates – The Programming Hub (AI, Python, C++, C, SQL, JavaScript)	2026
Gem Identification and Valuation – Gem Ethics Academy	Sep. 2025
Hikvision IP CCTV and Access Control Training – Hikvision	Jan. 2025

Achievements

- INNOVATE-X presented at the University Innovation Exhibition, Birmingham City University – 2026.
- Hikvision Co-Brand Recognition through DC Electricals – 2025.
- Junior Inventor Award – 2017.
- 1st Place, District Tamil Speech and Tamil Poetry Competitions – every year, 2015 – 2019.
- 4th Place, Provincial Debate Competition – 2019; 4th Place, Provincial General Knowledge Quiz – 2016.

Additional Skills

Professional: Leadership, Communication, Teamwork, Design Thinking, Problem Solving, Project Coordination, Client Relationship Management
Languages: Tamil (Native), English