

Kaviraj Vijayanthiran

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Passionate final year Software Engineering student at Sunway University with the drive to build robust and efficient software using the latest technology stacks. Skilled in full-stack development, with a proven track record in award-winning hackathons and recent cloud internship. Seeking for a **full-stack** role starting **September 2025**.

Skills

Languages: JavaScript/TypeScript, HTML, CSS, Java, Python, SQL

Frameworks: React.js, Expo (React Native), Express.js, FastAPI, Spring Boot

DevOps: GitHub, Docker, AWS, Linux, CI/CD, Apache/Nginx, Bash/PowerShell

Certifications: Microsoft AI Engineer Associate (AI-102) & AI Fundamentals (AI-900)

Education

Bachelor of Software Engineering

August 2022 – August 2025 (Expected)

Sunway University & Lancaster University (Dual Award)

- Jeffrey Cheah Entrance Scholarship

Professional Experience

Software Engineering Trainee

January 2025 – April 2025

Exabytes Enterprise Sdn. Bhd.

- **Streamlined the handoff process of VMs to customers** by engineering a VM provisioning and validation solution using React, Express and MySQL.
- **Automated end-point device data collection** by integrating Bash & PowerShell scripts with scheduled execution.
- **Deployed applications** using Terraform, CloudFormation and AWS CDK, and **integrated CI/CD pipelines** via Jenkins and GitHub Actions.

Projects

Multi-Robot Management System

July 2025 | Private Repository

Final Year Project | React.js, FastAPI, Robot Operating System (ROS), PostgreSQL, Docker

- Developed a **full-stack management dashboard** for ROS1 and non-ROS robots in a local network.
- Designed with **extensibility** in mind and supports TurtleBot 3 and Keyes KS0223 Pi Car Kit out-of-the-box.
- Implemented **RESTful** FastAPI backend with ROS and PostgreSQL and integrated a **clean React.js frontend**.

GrabEx – AI-Powered Sales & Customer Retention Dashboard

April 2025 | [GitHub](#)

1st Place - UM Hackathon 2025 | React.js, FastAPI, PostgreSQL, Gemini 2.5 Flash, Docker

- **Led a team of four to victory** in a large-scale intervarsity hackathon, outperforming over 1,000 participants
- **Engineered a full-stack web platform** to help Grab merchants re-engage lapsed customers and provide inventory suggestions through **natural language prompts**.
- Utilized **Docker containers for ease of deployment**; designed interactive UI with React + Mantine and backend API with FastAPI.

IxC Pay – Offline Payment System

August 2024 | Private Repository

ImpactXChange Hackathon 2024 | Flutter, Express.js, React.js, PostgreSQL

- Participated in a 9-day hackathon programme with workshops focusing on **sustainability and green coding**.
- **Collaborated in a team of three** to develop a fully functional **offline peer-to-peer payment system**, designed for areas with limited internet connectivity.
- Built a cross-platform **mobile app in Flutter**, with a **React.js dashboard** and **Express.js + PostgreSQL backend** for handling transactions.

CityWatch – Community Issue Reporting Platform

November 2023 – December 2023 | [GitHub](#)

Group Project – Sunway University | HTML, CSS, PHP, XAMPP Stack

- Created a forum-style website for residents to **report township issues** with **user authentication** and **admin moderation features**.
- Designed an **intuitive UI** with HTML/CSS for accessible issue reporting.

Awards

- 1st Place, Economic Empowerment through AI, UM Hackathon (GrabEx Project) – April 2025
- 2nd Place, Taylor's University Battlebots Competition – June 2024
- Top 10 Finalist, Data Science Challenge, Techlympics Malaysia – November 2023