

# Kaviraj Vijayanthiran

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Final year Software Engineering student at Sunway University with hands-on experience in full-stack development, cloud infrastructure, and DevOps. Proficient in technologies like React.js, Node.js, Typescript, AWS/Azure and Docker with a track record of award-winning hackathon projects and a recent internship an established digital solutions provider company. Actively seeking a **full-stack Software Engineering role** starting **September 2025**.

## Skills

**Programming:** JavaScript/TypeScript, HTML, CSS, Java, Python, Scala, Kotlin, Dart, PHP  
**Frameworks:** React.js, Expo, Express.js, FastAPI, Spring Boot, Flutter, Android Jetpack  
**DBMS:** MySQL, PostgreSQL, SQLite, Oracle  
**DevOps:** GitHub, Docker, AWS, Linux, Jenkins, CI/CD, Apache/Nginx, Prometheus, Bash/PowerShell  
**Certifications:** Microsoft Azure AI Fundamentals (AI-900) & AI Engineer Associate (AI-102)

## Education

**Bachelor of Software Engineering** August 2022 – Present (August 2025)  
*Sunway University & Lancaster University*

**Foundation Programme** (Computing & Technology Route) July 2021 – May 2022  
*Asia Pacific University - CGPA 3.67*

## Professional Experience

**Software Engineering Trainee** January 2025 – April 2025  
*Exabytes Enterprise Sdn. Bhd.*

- **Automated provisioning and validation of virtual machines** by developing a full stack React, Express & PostgreSQL application.
- **Implemented Infrastructure as Code (IaC)** with Terraform, CloudFormation & AWS CDK to provision resources and deploy applications on AWS.
- **Streamlined deployments** of applications and docker images through automated CI/CD pipelines using Jenkins, AWS CodePipeline & GitHub Actions.
- **Monitored real-time system resource metrics** with Prometheus and **implemented automated system data collection** using Bash & PowerShell scripts with scheduled execution.

## Projects

**GrabEx – AI-Powered Sales & Customer Retention Dashboard** April 2025 | [GitHub](#)  
*1<sup>st</sup> Place - Universiti Malaya Hackathon 2025 | React.js, FastAPI, PostgreSQL, Gemini 2.5 Flash, Docker*

- **Developed a full-stack web platform** to help merchants re-engage lapsed customers and optimize inventory decisions using **natural language prompts**.
- **GrabBack:** Implemented a customer re-engagement system that delivers **personalized promotions based on historical order data**.
- **GrabCast:** Built a forecasting tool that **predicts daily sales and suggests optimal stock levels**.
- Deployed using **Docker** for modular development and ease of deployment; designed interactive UI with **React.js** + **Mantine** and backend API with **FastAPI**.

**IxC Pay – Offline Payment System** August 2024  
*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*

- Designed and built a functional **forum-style website** for residents to **report and track township issues** (e.g., potholes, streetlight outages, water disruptions).
- Implemented **user authentication**, and **admin moderation** features using PHP and the XAMPP stack.
- Styled a **clean and intuitive UI** with HTML/CSS, enabling a simple and accessible reporting experience.

## Awards

- 1<sup>st</sup> Place Winner of Domain 3: Economic Empowerment through AI, Universiti Malaya Hackathon – *April 2025*
- 2<sup>nd</sup> Place Winner of Taylor’s University Battlebots Competition – *June 2024*
- Top 10 Finalist of Data Science Challenge, Techlympics Malaysia – *November 2023*
- Jeffrey Cheah Entrance Scholarship – *August 2022*