

Kaviraj Vijayanthiran

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Final year software engineering student with a drive for exploring and working on the latest software technologies. Experienced in building full-stack applications and DevOps practices such as deployment automation, infrastructure provisioning and systems administration. Eager to apply problem-solving skills and contribute to innovative software projects. Seeking a full-time position that integrates software development skills, cloud computing and DevOps practices.

Skills

Programming: JavaScript, TypeScript, Java, Python, Scala, Kotlin, PHP, HTML, CSS

Frameworks: React.js, Expo, Express.js, FastAPI, Spring Boot, Flutter, Android Jetpack

DBMS: MySQL, PostgreSQL, SQLite, Oracle

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

Education

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

Foundation in Information Technology July 2021 – May 2022
Asia Pacific University
CGPA 3.67

Professional Experience

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

- Worked on a full-stack React.js & Express.js project that automates provisioning and validation of VMs on VMware cloud.
- Implemented Infrastructure as Code (IaC) with Terraform, CloudFormation and AWS CDK to provision resources and deploy applications on AWS.
- Configured and deployed web services using Apache, Nginx (reverse proxy), and Docker for full-stack applications.
- Monitored real-time system resource metrics and implemented automated system data collection using Prometheus, Bash and PowerShell scripts with scheduled execution.
- Automated CI/CD pipelines using Jenkins, AWS CodePipeline, and GitHub Actions to deploy applications from GitHub to a Virtual Private Server and push Docker images to Docker Hub.

Projects

GrabEx – AI-Powered Sales & Customer Retention Dashboard April 2025 | [GitHub](#)

1st 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 + 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](#)

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

- Designed and built a functional forum-style web application for residents to report and track township issues (e.g., potholes, streetlight outages, water disruptions).
- Implemented user authentication, user forum, 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

- 1st Place Winner of Domain 3: Economic Empowerment through AI, Universiti Malaya Hackathon – **April 2025**
- 2nd 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**