

# Anirut Puangkingkaew

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Portfolio: <https://portfolio.idevtifytech.com>

GitHub: <https://github.com/aoddy10>

## PROFESSIONAL SUMMARY

Full Stack Developer with over 7 years of experience building web applications, backend systems, and cloud-based solutions. In recent years, I have been learning and building projects in AI and machine learning, including Generative AI tools using OpenAI. Many of these projects were self-initiated to practice real-world skills and explore AI integration. I enjoy writing clean, maintainable code and solving problems through automation and smart design. I am a quick learner, open to feedback, and seeking new challenges.

## CORE SKILLS

**Languages:** Python, JavaScript, TypeScript, Go, PHP, C#, SQL

**Frontend:** React.js, Next.js, Redux, React Native

**Backend:** Node.js, Django, Flask, FastAPI

**AI/ML:** OpenAI API, TensorFlow, IBM Watson, Scikit-learn, RAG, LangChain, LLM, NLP, Prompt Engineering

**Data:** Pandas, NumPy, SciPy, Prisma, PostgreSQL, MSSQL, MySQL, MongoDB

**Cloud/DevOps:** AWS (EC2, S3), Serverless, Docker, CI/CD, Git, Nginx, Apache

**Tools:** Postman, Jupyter, GitHub, VS Code, Linux

**Others:** Raspberry Pi, Arduino, Node-RED, AwareIM, WordPress

## CERTIFICATIONS & LEARNING

**IBM Generative AI Engineering Professional Certificate** - IBM/Coursera (July 2025) [LINK](#)

**AI Agents Using RAG and LangChain** - IBM/Coursera (July 2025) [LINK](#)

**Generative AI Foundational Models for NLP & Language Understanding** - IBM/Coursera (June 2025) [LINK](#)

**AWS Machine Learning Foundations** - AWS (June 2025) [LINK](#)

**Generative AI and LLMs: Architecture and Data Preparation** - IBM/Coursera (June 2025) [LINK](#)

**Machine Learning with Python (V2)** - IBM/Coursera (May 2025) [LINK](#)

**Data Analysis with Python** - IBM/Coursera (April 2025) [LINK](#)

**Programming with Google Go** - UoC/Coursera (April 2025) [LINK](#)

**Blackbird Australia Software Engineering Virtual Program** - Forage (December 2024) [LINK](#)

**Commonwealth Bank Software Engineering Simulation** - Forage (November 2024) [LINK](#)

**CS50's Web Programming with Python and JavaScript** - HarvardX/edX (September 2024) [LINK](#)

# AI & ML PROJECTS

## AI Resume Analyser

Link: <https://github.com/aoddy10/ai-resume-analyzer>

Tech Stack: FastAPI, OpenAI GPT, Next.js, Tailwind CSS, PDF Parser

A GPT-powered web app that analyses resumes and provides feedback with optional job description matching.

## Generative AI SaaS Platform

Link: <https://idf-saas-ai.vercel.app/>

Tech Stack: Next.js, PostgreSQL, Prisma, OpenAI API, Stripe, Clerk.dev

Developed a web-based platform enabling users to generate text, images, and music using OpenAI GPT and DALL-E.

Included user authentication, subscription billing, and content pipeline.

## Real-Time AI Accident Detection System (URGENCE)

Link: <https://github.com/aoddy10/adv2-urgence>

Tech Stack: Python, TensorFlow, OpenCV, Raspberry Pi, Firebase, Flutter

Built a prototype using camera input and deep learning to detect potential road accidents in real-time. Integrated notification and data logging to a mobile app via Firebase.

# WEB & FULL STACK PROJECTS

## Kiwi Explorer

Link: <https://github.com/aoddy10/yoobee-mse800-kiwiexplorer>

Tech Stack: React, Tailwind CSS, Django, PostgreSQL, Docker

Full-stack web application to explore tourist locations in New Zealand. The frontend was developed using React and Tailwind CSS. The backend was implemented using Django and Django REST Framework, serving location data through RESTful APIs. PostgreSQL was used as the database, and the system was deployed using Docker with a multi-container setup.

## Project Management System

Tech Stack: React, Node.js, Express, MySQL

Designed and built a task and project tracking tool for teams with budget control, custom metrics, and deadline alerts.

## Membership & Payment Web App

Tech Stack: React, Node.js, PostgreSQL, Stripe

Built a system with user role management, auto-renewal billing, and optimised frontend performance (>90% Lighthouse score).

## IoT Air Quality Monitoring (Dustation)

Tech Stack: Arduino, Node-RED, Raspberry Pi, Linux

Used Arduino and Raspberry Pi to collect air quality data and transmit to a Node-RED dashboard for real-time alerts.

## In-house ERP Solution

Tech Stack: Visual Basic

Designed and implemented an ERP system to manage stock, production planning, and material requirements. Reduced inventory by 60% and improved delivery lead time to ≤3 days.

# PROFESSIONAL EXPERIENCE

## Full Stack Engineer

Favour - Auckland, New Zealand

July 2025 - Present

- Assist in building and maintaining a cross-platform mobile app using React Native, focusing on responsive UI for both iOS and Android.
- Integrated Redux Toolkit to manage shared state across components efficiently.
- Connected frontend interfaces with Django-based backend APIs to support features like recipe browsing and meal planning.
- Contributed to RESTful API development, MySQL schema design, and AWS Lambda setup for backend scalability.
- Helped implement key features such as user authentication, meal customisation, and real-time order tracking.
- Participated in sprint planning, code reviews, and team discussions following agile methodology.
- Explored AI integration opportunities within the app's workflow to enhance user experience.

## Full Stack Developer / System Engineer

Sydney College - Sydney, Australia

February 2021 - September 2024

- Built a student management system using AwareIM and AWS EC2 for cloud-based data access.
- Created SMMS reporting tools using React, Context API, Node.js and reduced report generation time by 40%.
- Integrated third-party LMS with RESTful APIs, automating result submissions with full accuracy.
- Led cloud migration and CI/CD pipelines for internal tools, enabling continuous delivery.

## Web Developer

The Studio - Sydney, Australia

February 2020 - June 2020

- Improved website performance and SEO (90+ scores) by refactoring and removing bottlenecks.
- Created a secure membership and payment system with user access control.

## Freelance Software Developer

Remote / Client-Based Projects

February 2017 - Present

- Delivered custom web and mobile apps using React, Node.js, and Django.
- Designed scalable APIs, database architecture, and implemented CI/CD workflows.

## Software & Network Systems Engineer

Australian International College, Sydney, Australia

June 2017 - June 2020

- Implemented internal tools using React, Node.js, PHP, WordPress, and Docker for academic workflows.
- Managed server infrastructure, automated backups, and improved cybersecurity.

## ERP System Developer (Earlier Experience)

C.P.D. Sheet board Co., Ltd., Chiangmai, Thailand

August 2000 - December 2013

- Developed a full ERP system in Visual Basic for stock, MRP, and production planning.
- Achieved 60% stock reduction and faster lead times with automated planning tools.

# **EDUCATION**

## **Master of Software Engineering**

Yoobee College of Creative Innovation - Auckland, New Zealand (Expected Nov 2025)

Focus: Professional Software Engineering, Cloud Security, Blockchain, Data Analytics, Quantum Computing, Intelligent Transport Systems

## **Bachelor of IT in Mobile Application Development**

Academy of Information Technology - Sydney, Australia (June 2020)

Focus: Cross-Platform Apps, Data-Driven Apps, iOS Programming, Android Programming

## **Diploma of IT in Software Development**

Australian Computer Society - Sydney, Australia (June 2017)

Focus: Develop high-level object-oriented class specifications, build a dynamic website

## **Bachelor of Business Administration**

Maejo University - Chiangmai, Thailand (March 2000)