

# Anirut Puangkingkaew

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## CAREER GOAL

Specialising in Frontend and Full-Stack development with over 7 years of experience, demonstrating a keen aptitude for creating responsive, user-friendly interfaces and robust backend systems. Known for efficiently translating design concepts into functional code and delivering effective, easy to maintain and reuse applications. Committed to continuous learning, with a current focus on AI technologies, aiming to contribute significantly to innovative projects within a forward-thinking company. Dedicated to following best practices and writing clean, maintainable code, ensuring long-term success and scalability.

## SKILLS

### AI & Machine Learning

- Ollama
- Generative AI
- RAG
- OpenAI API

### Programming Languages & Frameworks

- Python
- Google Go
- Django
- React
- Redux
- Next.js
- TypeScript
- NodeJS
- React Native
- Angular
- Javascript
- PHP

### Database & ORM

- MSSQL
- MySQL
- PostgreSQL
- MongoDB
- Sequelize
- Prisma

### Authentication & Security

- JWT
- Auth0

### DevOps & Cloud Infrastructure

- AWS EC2
- Linux
- Ubuntu
- Docker
- CI/CD
- Git
- Nginx
- Nginx-Reverse
- Apache

### Testing & Quality Assurance

- Unit Testing
- A/B Testing
- Jest

### IoT & Embedded Systems

- IoT
- Arduino

### Tools & Platforms

- AwareIM
- WordPress
- Node-RED

### Methodologies

- Agile
- Sprint Retrospective

## EXTRA CURRICULAR & CERTIFICATIONS

### Programming with Google Go

University of California - April 2025

<https://coursera.org/share/720342e34ccdc21c2b6999e1d6ceb2a1>

- Getting Started with Go
- Functions, Methods, and Interfaces in Go
- Concurrency in Go

### Blackbird Australia Software Engineering virtual experience program

Forage - December 2024

- Completed a job simulation where I participated as a software engineer in a start-up environment
- Built and verified code, assessed cloud infrastructure
- Proposed a new feature to undergo A/B Testing
- Participated in sprint retrospectives with a hypothetical project team to improve cross-functional teamwork
- Implemented designs for an IoT temperature warning system using Arduino.

### Commonwealth Bank Software Engineering Job Simulation

Forage - November 2024

- Completed a job simulation focused on backend and frontend development for Commonwealth Bank's Software Engineering team.
- Extended the backend using C# to enable icons, gaining proficiency in .NET, MongoDB, Postman, and Git.
- Modified an existing React/Redux frontend to enable icons, expanding expertise in React, Redux, TypeScript, NPM, and Git.
- Strengthened coding skills and learned unit testing with C#, xUnit, and .NET, ensuring comprehensive code coverage and support for icons.
- Improved Git and Github skills, emphasizing effective communication through the submission of changes for team review.

### CS50's Web Programming with Python and JavaScript

Harvard University - September 2024

<https://certificates.cs50.io/d5baf46-eabe-4835-8d89-d45f56e6d97b>

## WORK EXPERIENCE

### Sydney College

Sydney, Australia

#### Computer Network and System Engineer

February 2021 - September 2024

- Developed a student management system using AwareIM and host on AWS EC2.
- Developed SMMS Report by using React, Redux, and Node to analyse data and generate reports to match requirements.
- Integrate a student management system with a learning management system to transfer student results using API technic, to reduce manual input to achieve 100% data accuracy.
- Setup learning management system to be paperless and implement 100% online learning and assessment

### The Studio

Sydney, Australia

#### Web Developer

February 2020 - June 2020

- Diagnosis of extended website response times, enabling the identification of bottlenecks and removal of redundant functions and code segments to achieve  $\geq 90\%$  loading performance and SEO score  $> 90$  points.
- Developed a membership system, to manage client permission to access content and renew subscriptions.
- Integrate the website with a payment gateway and enable secure and seamless online transactions.

### Freelance

Sydney, Australia and Thailand

#### IT Consultant and Full Stack Developer

February 2017 - Present

- Designed and programmed APIs for smooth communication in software applications.
- Created and maintained customer-focused web applications using React, Redux, Node
- Managed database servers to ensure data integrity and availability.
- Worked closely with teams to troubleshoot and fix software bugs.

### Australian International College

Sydney, Australia

#### Computer Network and System Engineer

June 2017 - June 2020

- Develop a WordPress website with advanced functions for template and form using PHP
- Deploy the website using docker on AWS EC2 and use Nginx-reverse to manage multiple website access.
- Set up data files server on Synology NAS using hyper backup to achieve 100% data backup rate.
- Maintenance and config server on AWS to get more secure by setting up a firewall and allowing access protocol.

### C.P.D. Sheet board Co., Ltd.

Sydney, Australia

#### Computer System Engineer

August 2000 - December 2013

- Developed ERP system using Visual Basic to adeptly analyse stock levels, align them with production planning, generate a precise material requirement list and optimise to achieve a 60% reduction in stock volume.
- Seamless integration for ordering system to allow bulk uploads of order data and made it real-time production planning and report to reduced production errors  $\leq 1\%$  and lead times production and delivery  $\leq 3$  days.

## PROJECTS

### Dustation (Node-RED, Raspberry PI, Linux)

- Developed an application to get data from a PM2.5 reader and display it in real-time on the screen in kiosk mode.
- Create API to get data and store PM2.5 data in MySQL and send data to the main server to centralise from 200 devices.
- Set up Linux to provide Client mode using WPA supplicant service and AP mode by using hostapd, dnsmasq and dhcpd.

### SAAS AI Platform (Next.js, Prisma, PostgreSQL, Generative AI, OpenAI)

- Provide to generate chat, images, video, music and code using generative AI from OpenAI
- Using Clerk to manage user account and security
- Integrate payment gateway using stripe SDK

### Project Management System (React, Node, JWT)

- The app allows one to manage projects in the construction business, easily classify tasks and assign them to a team.
- Generate and display real-time reports so that the management team have a more efficient control budget and hours.

### URGENCE (Python, TensorFlow, OpenCV, Raspberry PI, Flutter, Firebase)

- Detect people's motion using OpenCV with the camera on Raspberry PI.
- Utilizing TensorFlow to analyse and predict people's accident collapse in the scene.
- Send real-time alerts to user's mobile including accident image store on Firebase.

## EDUCATION

### Master of Software Engineering

Yoobee College of Creative Innovation

Auckland, New Zealand, Expected Nov 2025

Coursework: Data analytics, Quantum computing, cloud security and blockchain

### Bachelor of IT in Mobile Application Development

Academy of Information Technology

Sydney, Australia, June 2020

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

### Diploma of IT in Software Development

Australian Computer Society

Sydney, Australia, June 2017

Coursework: Develop high-level object-oriented class specifications, Build a dynamic website

### Bachelor of Business Administration

Maejo University

Chiangmai, Thailand, March 2000