

# Anirut Puangkingkaew

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## PROFESSIONAL PROFILE

With six years of experience as a Full-stack Developer and over a decade in Computer Systems and Networking Engineering, I offer a robust technical background to drive innovation and efficiency. My skills bridge the realms of software development and infrastructure, ensuring holistic solutions. My work has a global footprint, having undertaken projects across various countries, enabling me to adapt and apply diverse technology insights to help companies achieve their goals while optimizing cost efficiency.

My journey in technology has been marked by a commitment to excellence and a passion for creating impactful solutions. I possess a deep understanding of both front-end and back-end development, utilizing development skills like ReactJS, React Native, Next.js and NodeJS to build high-performance web applications and software systems. In the realm of Computer System and Networking Engineering, I have designed and maintained resilient IT infrastructures, ensuring high availability and efficiency.

## Expertise

- Frontend Web Application Development
- Backend API Service Development
- Mobile Application Development
- Cloud System Design and Implement
- Software as a Service (Saas)
- Learning Management System
- Web Application Servers
- Data Files Server
- Database Management
- Artificial Intelligence and Machine Learning
- Networking Design
- IT Infrastructure Design & Operation
- IT Service Implementation & Provision
- Customer Relationship Management (CRM) Solution

## Technology and Skill:

Single Web Application	ReactJS, NextJS, NodeJS, AngularJS, AwareIM
Mobile Application	React Native, Expo, Ionic, X Code, Android Studio
Development Languages	HTML5, CSS, JavaScript, PHP, Visual Basic, JAVA, C#, C++, Python
Web Service	Apache, IIS, NGINX, NGINX-Reverse
CMS Development	WordPress, Custom Advance Fields, Member Press, WooCommerce
Cloud Solution	AWS EC2, AWS LightSail, AWS Route53, AWS S3, AWS RDS, Firewall, Microsoft Application Management, Power BI, Microsoft Exchange, Microsoft Azure, Google Workspace
Technology	Docker Container, Git Version Control, TensorFlow Machine Learning, Sequelize
Database	MSSQL, MySQL, PostgreSQL, MongoDB, ACCESS DB
Operating Systems	Linux, Window, MacOS, Ubuntu
Networking	Router Mikrotic, Router Cisco, NAS, Unifi
Tools	Slack, JIRA, Tello, Monday, VS Code, Active Campaign, Mailchimp

## PROFESSIONAL EXPERIENCE

### Computer network and systems engineer, Sydney College, Australia | Feb 2021 – Present

#### Key Achievements

- Configuring and overseeing multiple websites on an AWS EC2 Linux server, leveraging NGINX and NGINX Reverse Proxy for secure access through auto-renewing SSL certificates from Let's Encrypt, deploying in Docker containers, and Git-controlled CI/CD, has effectively reduced infrastructure costs and centralized security management to meet contemporary web hosting needs.
- Building an SMMS Report with ReactJS, Node.js, MUI, Docker, and Git, connected to an MSSQL Database, followed a methodical approach to implement features, centralize data, and provide real-time information. The outcome has been a remarkable transformation in administrative operations. Staff members can now conveniently access all required data from a centralized hub, greatly boosting workflow efficiency and data accuracy, while significantly improving enrolment process precision.
- Established seamless integration between the Student Management System (SMMS) and Moodle, a Learning Management System, effectively eliminating redundant and error-prone manual tasks. This has led to a notable reduction in administrative workloads, along with improved data accuracy and currency, ultimately reducing data-related problems.
- Using WordPress and a NodeJS API hosted on AWS EC2; established an online form for request submissions and seamless data transfer to the Student Management System (SMMS). Also incorporated an automated feature within the SMMS through AwareIM, simplifying the generation of offer letters, payment evidence, and course enrolments. This solution significantly reduces workflow complexity and enhances operational efficiency.
- Configuring and deploying multiple Moodle hosts on a Linux instance in AWS EC2, along with deploying the Apache Web Server, encompassed server provisioning, containerization, and SSL certificate setup with automatic renewal through Let's Encrypt. This enables organizations to significantly enhance their cost efficiency by strategically optimizing resource allocation and strengthening security measures.

#### Key Responsibilities

- Maintain and monitor computer network, school system, and application software.
- Develop and manage SMMS using AngularJS, NodeJS, and Express Framework.
- Design and develop system configurations.
- Develop and maintain school websites with WordPress, PHP, and JavaScript.
- Manage cloud server and student database (AWS EC2 and Hosting).
- Direct system installations, evaluate system operations and manage databases.
- Install and configure computer systems, diagnose hardware/software faults, and solve technical problems.
- Regularly update and maintain school network systems, service servers, and software.
- Provide network inventory, troubleshoot system procedures, and determine equipment repair/replacement needs.

### IT Consultant, Freelance, Australia-Thai | Feb 2017 – Present

#### Key Achievements

- Participating in a Machine Learning project that employed Flutter, Firebase, Python, and TensorFlow was crucial in developing a system capable of recording Raspberry Pi camera footage and detecting instances of individuals falling or collapsing. The primary project tasks revolved around training a machine learning model to accurately identify these events and send real-time notifications to alert users about potential emergencies. The results have been remarkable, as this technology significantly reduces response time in critical situations. Swift notifications empower users to take immediate action when incidents occur, enhancing safety and potentially preventing severe consequences.
- Crafting a mobile application for a massage business booking system using React Native, NodeJS, Tailwind CSS, MongoDB, and JWT Authentication has proven to be highly advantageous. The application offers online booking, maintains payment records, and provides customer analysis, resulting in practical benefits. It has notably increased the volume of bookings, making services more accessible to clients. Moreover, it has significantly improved staff management efficiency by simplifying scheduling and payment record tracking.

The customer analysis functionality enables the business to effectively utilize customer data, leading to enhanced customer relationship management (CRM).

- Designing and developing a project management system, utilizing React, NodeJS, MUI, MySQL, and Sequelize, and featuring staff performance analysis, project timeline management, and project cost analysis and control, has had practical consequences. This is evident in the notable increase in successfully completed projects within deadlines and the substantial improvement in cost control and the efficiency of project management.
- Designing a membership website for an associated organization, with features like private training and supplier promotions, involves a holistic approach that utilizes HTML, CSS, JavaScript, and WordPress. Stripe Payment integration ensures seamless transactions in this comprehensive development process, which encompasses user-friendly website design, content creation, member registration, and secure payment processing, resulting in a significant increase in membership. The website's user-centric design, along with exclusive offerings, motivates more individuals to become members, leading to a larger and more engaged community.
- Embedding Stripe payment within an E-Commerce website, utilizing ReactJS and NodeJS, enhances the website's capabilities, guarantees secure API connections, and simplifies payment processing, offering customers a smooth and secure payment experience. This encourages easy product purchases and contributes to a significant increase in sales.

#### **Key Responsibilities**

- Collaborate with clients to understand their specific business needs and challenges. Conduct thorough assessments to identify areas where IT solutions can enhance business operations or address issues effectively.
- Develop tailored IT solutions, including websites, applications, and system architectures, based on client requirements and industry best practices. Ensure that the proposed solutions align with the client's goals and objectives.
- Configure and deploy server infrastructure and IT environments that align with the client's business scale. This involves selecting the appropriate hardware and software components, optimizing performance, and ensuring scalability.
- Seamlessly integrate IT solutions with existing client systems, databases, and third-party services, fostering a cohesive and efficient IT ecosystem.
- Provide ongoing technical support and troubleshooting to clients, addressing any issues, concerns, or enhancements required post-implementation. Ensure that the IT solutions continue to function optimally.

### **Full stack web developer, The Studio, Australia | Feb 2020 - Mar 2022**

#### **Key Achievements**

- Performance monitoring and analysis are essential for diagnosing extended website response times, enabling the identification of bottlenecks and the removal of redundant functions and code segments. This optimization process leads to a website that responds swiftly, ultimately enhancing the user experience and increasing customer engagement. Users can access content without delays, reducing frustration and encouraging longer visits.
- Incorporating marketing tools like Active Campaign into a website, with thorough API setup and data synchronization, enables the automation of response emails to customers. This initiative significantly enhances the company's ability to provide a more engaging and efficient customer experience.

#### **Key Responsibilities**

- Develop websites using HTML, JavaScript, and PHP, ensuring responsive design and optimal user experience.
- Update and maintain existing websites, implementing enhancements and resolving issues promptly.
- Create a membership system, allowing users to register, log in, and manage their accounts securely.
- Integrate websites with marketing platforms like Active Campaign, automating email campaigns and customer interactions.
- Integrate websites with payment platforms such as Stripe, enabling secure and seamless online transactions.
- Collaborate with cross-functional teams, including designers and back-end developers, to deliver high-quality web solutions.

## **Computer network and systems engineer, Australian International College, Australia | Jun 2017 - Feb 2021**

### **Key Achievements**

- Deploying the Moodle E-Learning System on a Linux-based AWS EC2 instance, with a strong focus on security access and Let's Encrypt SSL certificates, establishes a fully-rounded e-learning platform. The reconfiguration and implementation of courses streamline the delivery, improving efficiency for educators to create interactive and engaging learning experiences. Accurate grading control enhances assessment and feedback mechanisms, contributing to a comprehensive educational environment.
- Redesigning the website involves the use of HTML, CSS, JavaScript, PHP, and WordPress to craft a customer-focused, responsive, and visually captivating digital platform. Furthermore, employ SEO optimization to boost the website's visibility on search engines, attracting more organic traffic and potential customers. The addition of an SSL certificate guarantees a secure and trustworthy browsing experience for visitors. The project's outcomes manifest in an expanded customer base and a faster-loading website, leading to enhanced user performance and a more gratifying and efficient interaction with the website.
- Designing and deploying networks with Unifi to ensure seamless connectivity, along with the configuration of Mikrotik and Cisco routers to optimize network performance and security, has resulted in the establishment of stable and highly efficient networks. Users now experience fewer disruptions and enhanced connectivity, leading to a significant reduction in network-related complaints. As a result, the school can reliably cater to up to 500 students each day.
- Established and configured a Synology Network-Attached Storage (NAS) system to provide staff members in various countries, including Australia and Thailand, with efficient data file services. This solution substantially enhanced the organization's overall efficiency, data accessibility, and cost-effectiveness, while promoting a secure and collaborative work environment for geographically dispersed teams.

### **Key Responsibilities**

- Maintain and monitor computer networks, school systems, and software/hardware configurations.
- Develop and manage the SMMS (Student Management System) using AngularJS, NodeJS, and Express Framework.
- Design and implement system configurations and installations.
- Create and maintain the school website with WordPress, PHP, and JavaScript.
- Manage cloud servers and student databases on AWS EC2 and Hosting.
- Direct system installations, evaluate operations and oversee database management.
- Install and configure computer systems and diagnose and troubleshoot hardware/software issues.
- Regularly update the school's network system, service servers, and software.

## **Computer system engineer, C.P.D. Sheetboard Co., Ltd. Thailand | Aug 2000 - Dec 2013**

### **Key Achievements**

- Developing an ERP system has led to significant operational enhancements. The system skilfully analyses stock levels, aligns them with production planning, and generates precise material requirement lists. This optimization has resulted in an impressive 60% reduction in stock volume and decreased inventory costs, ensuring a more accurate and efficient supply of raw materials to the production line.
- By analysing, designing, and developing an advanced ordering system that seamlessly integrates manufacturing and customer company systems, I have enabled bulk order uploads from customers. The system generates precise production order lists by analysing stock levels and customer requests and provides real-time order status reports and dispatch notifications. The practical impact of this endeavour includes a substantial increase in orders, heightened customer satisfaction, reduced production errors, shorter lead times, and consistently on-time deliveries.
- My role encompassed the design, analysis, and implementation of a robust computer and networking system, with a strategic focus on Microsoft Server technology. The integration of domain names streamlined network management and allowed for seamless real-time data synchronization between two geographically distant offices. The result was the achievement of smooth real-time data transfer, improvements in team efficiency, and empowered sales teams with the capacity to deliver accurate product information. This contributed to a significant reduction in customer complaints and an overall enhancement in the quality of customer service.

## **Key Responsibilities**

- Utilize virtualization technologies like Hyper-V and/or VMWare.
- Design, implement, and manage cloud technologies using Azure and/or AWS.
- Manage Office 365 and SharePoint deployments.
- Plan and implement hardware and software upgrades in existing installations.
- Design hardware and software configurations for new installations.
- Handle network and security tasks, including penetration testing.
- Research network infrastructure requirements and demands.
- Analyse, monitor and optimize system performance.

## **EDUCATION AND TRAINING**

### **Academy of Information Technology**

- Australia, Oct 2017 - Jun 2020
- Bachelor of IT (Mobile application development)

### **Australian Computer Society**

- Australia, Jul 2016 - Jun 2017
- Diploma of IT (Software development)

### **Maejo University**

- Thailand, May 1998 - Mar 2000
- Bachelor in Business Administration

## **REFERENCES AVAILABLE UPON REQUEST**

### **Latha Karlekar**

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