

# 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 Network Engineering, I offer an extensive technical background proven to drive innovation and efficiency. My skills bridge the disciplines of software development and infrastructure engineering, ensuring holistic solutions. My work has a global footprint, with successfully delivered projects across various countries. This background enables me to adapt and apply diverse technology insights to help companies achieve their goals while optimising cost efficiency.

My career in technology is characterised by commitment to excellence and a passion for creating impactful solutions. I possess a deep understanding of both front-end and back-end development, utilising development skills 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

- Web Developer
- Frontend Web Application Development
- Backend API Service Development
- Mobile Application Development
- Cloud System Design and Implement
- DevOps Engineer
- Software as a Service (Saas)
- Learning Management System
- Web Application Servers
- Data Files Server
- Database Management
- Artificial Intelligence and Machine Learning
- Networking and Computer System Engineer
- 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++
Artificial Intelligence	Python, TensorFlow
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
Deploy tools	Docker Container, Git Version Control

Database	MSSQL, MySQL, PostgreSQL, MongoDB, ACCESS DB, Sequelize
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

- Configured and managed multiple websites on an AWS EC2 Linux host, utilising NGINX and NGINX Reverse Proxy to ensure secure access with auto-renewing SSL certificates from Let's Encrypt. Deployed them in Docker containers and implemented Git-controlled CI/CD pipelines, resulting in a substantial reduction in infrastructure costs and centralised security management to meet specific web hosting demands.
- Developed an SMMS Report using ReactJS, Node.js, MUI, Docker, and Git, backed by an MSSQL Database. Followed a systematic approach to implement features, centralise data, and deliver real-time information. This initiative brought about a significant transformation in administrative operations, enabling staff members to conveniently access essential data from a centralised hub, thereby enhancing workflow efficiency, data accuracy, and 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 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, containerisation, and SSL certificate setup with automatic renewal through Let's Encrypt. This enables organisations to significantly enhance their cost efficiency by strategically optimising resource allocation and strengthening security measures.

#### Key Responsibilities

- Maintain and monitor computer network, Student Management 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.

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

### **Key Achievements**

- Performance monitoring and analysis to aid in the diagnosis of extended website response times, enabling the identification of bottlenecks and the removal of redundant functions and code segments. This optimisation process led to significant reduction in website response times, ultimately enhancing the user experience and measurably increasing customer engagement.
- Incorporating marketing tools like Active Campaign into a website, with thorough API setup and data synchronisation, enabling the automation of response emails to customers. This initiative significantly enhanced 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 - Jun 2020**

### **Key Achievements**

- Deployed the Moodle E-Learning System on a Linux-based AWS EC2 instance, with a strong focus on security and Let's Encrypt SSL certificates, establishing a comprehensive e-learning platform. Reconfigured and implemented courses streamlined delivery, enhancing efficiency for educators in creating interactive learning experiences. Improved grading control enhanced assessments and feedback mechanisms, contributing to a comprehensive educational environment.
- Redesigned the website using HTML, CSS, JavaScript, PHP, and WordPress, creating a customer-focused, responsive, and visually captivating digital platform. Incorporated SEO optimisation boosted the website's visibility on search engines, attracting more organic traffic and potential customers. The addition of an SSL certificate ensured a secure browsing experience. Outcomes included an expanded customer base, a faster-loading website, enhanced user performance, and more gratifying interactions.
- Designed and deployed networks with Unifi to ensure seamless connectivity, along with configured Mikrotik and Cisco routers to optimise network performance and security, resulted in stable and highly efficient networks. Users experienced fewer disruptions and improved connectivity, leading to a significant reduction in network-related issues. The school could reliably serve up to 500 students daily.
- 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 organisation'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**

- Developed an ERP system that significantly enhanced operations. The system adeptly analysed stock levels, aligned them with production planning, and generated precise material requirement lists. This optimisation achieved an impressive 60% reduction in stock volume and lowered inventory costs, ensuring a more accurate and efficient supply of raw materials to the production line.
- Through analysis, design, and development, I enabled seamless integration of an advanced ordering system with manufacturing and customer company systems. This allowed for bulk order uploads from customers and generated precise production order lists by analysing stock levels and customer requests. Real-time order status reports and dispatch notifications were provided. Outcomes included a substantial increase in orders, heightened customer satisfaction, reduced production errors, shorter lead times, and consistent on-time deliveries.
- My role involved designing, analysing, and implementing a robust computer and networking system, with a strategic focus on Microsoft Server technology. The integration of domain names streamlined network management and enabled seamless real-time data synchronisation between two geographically distant offices. This resulted in smooth real-time data transfer, improved team efficiency, and empowered sales teams with accurate product information. These efforts led to a significant reduction in customer complaints and an overall enhancement in the quality of customer service.

### **Key Responsibilities**

- Utilise virtualisation 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 optimise 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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