Anirut Puangkingkaew

m: +61 414469971
anirut.puangkingkaew@gmail.com
LinkedIn: linkedin.com/in/anirutpuangkingkaew
U2001, 148 Elizabeth Street, Sydney, NSW 2000

PROFESSIONAL PROFILE

I am an experienced Full Stack Developer based in Australia, currently working as a Computer System and Networking engineer and freelance software developer. Proficient in ReactJS, NodeJS, React Native for mobile application development, MySQL, MSSQL, MongoDB, Docker, Git, AWS, TensorFlow, and Python for Machine Learning, I possess a diverse range of technical skills. With a strong aptitude for problem-solving, meticulous attention to detail, and a constant drive to learn new skills, I excel in tackling complex challenges. My commitment to personal growth and ability to adapt to emerging technologies enables me to stay at the forefront of the industry. As a software developer, I am eager to contribute my expertise to your team, delivering top-quality solutions in web and mobile development, as well as leveraging Machine Learning to enhance your projects while continuously expanding my knowledge.

KEY SKILLS AND EXPERIENCE

- **AI and Machine Learning Development**
  I possess a strong foundation in AI and Machine Learning, including expertise in Python programming, data analysis, and model development. My skills encompass data pre-processing, deep learning with frameworks like TensorFlow, computer vision techniques, and data visualization. Additionally, I have hands-on experience in real-world projects, such as building a Fall Detection System, which involved data collection, model training, and the integration of real-time camera feeds for event detection, demonstrating my practical knowledge in this field.

- **Mobile Application Development**
  I possess strong skills and knowledge in Mobile Application Development, with a specialization in React Native. My expertise allows me to efficiently design and develop cross-platform mobile applications. Additionally, I have a solid understanding of backend integration, enabling me to seamlessly connect mobile applications with robust backend systems, including Firebase for real-time data management and MongoDB for efficient data storage. This skill set empowers me to create versatile and responsive mobile applications that provide a seamless user experience while ensuring data security and scalability.

- **Front-end Development**
  I possess a wealth of experience in crafting dynamic websites and web applications. My proficiency lies in leveraging ReactJS, Redux, JavaScript, HTML, and CSS to create intuitive user interfaces. Furthermore, I deeply understand integrating platforms and RESTful services, ensuring seamless connectivity. With my knowledge of JWT Authentication, I am adept at implementing robust security measures. Through my expertise and dedication, I consistently deliver high-quality projects, driving exceptional user experiences.

- **Back-end Development**
  I possess strong skills in NodeJS and the Express framework. My expertise lies in effectively handling JWT Authentication and proficiently managing tokens. I am adept at implementing secure hashing algorithms and maintaining comprehensive logs for enhanced security and debugging purposes. With my proficiency in these areas, I ensure seamless functionality and robust backend systems that meet the highest standards of performance and reliability.

- **MSSQL, MySQL and No-SQL such as MongoDB with Sequelize**
  With comprehensive expertise in MSSQL, MySQL, and NoSQL databases like MongoDB, I possess a strong command over database management systems. I am skilled in designing and optimizing complex SQL queries, ensuring efficient data retrieval and manipulation. Additionally, I am experienced in working with MongoDB, and proficiently handling document-oriented databases. I am well-versed in utilizing Sequelize, a powerful ORM, to streamline database interactions and improve application performance. With my proficiency in these technologies, I consistently deliver robust, scalable, and high-performing database solutions.

- **Docker container and Git version control**
  I possess in-depth knowledge of Docker containerization and Git version control, which are essential tools in modern software development. I am proficient in creating and managing Docker containers to ensure consistency and portability across different environments. Furthermore, I have extensive experience using Git for collaborative development, enabling effective version control, branch management, and seamless integration with popular platforms like GitHub. My expertise in these technologies enables streamlined and efficient development processes, enhancing productivity and facilitating smooth project workflows.

- **Cloud Server Management**
  With a solid foundation in AWS, I have extensive experience working with key services such as AWS EC2 and AWS LightSail. I am skilled in deploying and managing cloud-based infrastructures, leveraging the power of AWS to ensure scalability, reliability, and cost-efficiency. From provisioning and configuring instances to optimizing performance and implementing security measures, I possess a deep understanding of AWS best practices. My proficiency in these technologies allows me to deliver robust and scalable solutions that meet the unique needs of businesses in the cloud environment.

KEY ACHIEVEMENTS

- I possess knowledge and skills in AI and Machine Learning, showcased through my active participation in a Machine Learning project. This project, implemented in Python, focused on utilizing machine learning techniques to analyse camera footage, specifically Raspberry Pi cameras, to detect instances of people falling or collapsing. I employed TensorFlow to train the machine learning model, enabling it to accurately identify such events. To enhance user safety, the system was designed to send real-time notifications to alert users about potential emergencies. The recorded data from the system was securely stored in Firebase, which facilitated the delivery of timely notifications to a mobile application developed with Flutter. This project underscores my proficiency in applying machine learning for real-time event detection and my ability to integrate multiple technologies to create a comprehensive and potentially lifesaving solution.

- I have successfully designed and developed a mobile application for a massage business booking system, leveraging the power of React Native for cross-platform compatibility. The app empowers managers with seamless booking slot management and customer issue recording capabilities. Additionally, it offers business owners robust tools for payment management and in-depth business analysis, enabling data-driven decisions. Furthermore, the app facilitates customer relationship management (CRM) and targeted advertising by leveraging the data recorded, thereby boosting business growth. This project exemplifies my proficiency in mobile app development and my ability to create multifunctional solutions that enhance operational efficiency and business expansion while adhering to industry best practices.

- I bring extensive experience in the development of a comprehensive Student Management System (SMS) using AwareIM. Additionally, I've extended its functionality by creating the SMMS Report, a dynamic reporting tool, utilizing ReactJS and Node.js Express Framework, and seamlessly connecting it to an MSSQL Database. This innovative reporting system significantly enhanced management efficiency. Moreover, I've integrated the SMMS Report with both the Student Management System and Moodle, the E-learning system, facilitating automated data transfer through Web Service API functions. Throughout the development process, I adopted Docker Container for efficient deployment and Git Version control for organized and collaborative development. This multifaceted project not only reflects my technical proficiency but also underscores my capacity to design and integrate complex systems while promoting efficient data management and reporting.

- I possess the skills and knowledge to seamlessly integrate an E-Commerce system with Stripe payment processing through API integration. The E-Commerce platform, developed using ReactJS for the front end and Node.js Express Framework for the back end, allowed for a robust and dynamic shopping experience. My proficiency in API integration ensured a smooth and secure payment process, enhancing the user experience while maintaining the highest standards of data security. This experience underscores my ability to bridge the gap between technology and online business operations, delivering efficient and secure E-Commerce solutions.

- I have successfully developed a Membership Website catering to the needs of an Association, offering trainers an array of membership benefits, including exclusive access to private training groups and safeguarding intellectual property. This comprehensive platform seamlessly integrates with Stripe for secure and convenient payment processing, ensuring a smooth user experience. This project highlights my ability to create tailored solutions that bridge the gap between technology and member services, enhancing the Association's offerings and facilitating efficient membership management while prioritizing data security and user convenience.

- I have a wealth of experience in effectively setting up and managing multiple websites on a single Linux Server hosted on AWS EC2. Employing NGINX and NGINX Reverse Proxy, I've meticulously configured the server to efficiently route incoming web traffic to distinct Docker containers, each hosting a separate website. The integration of Git for version control ensures streamlined development workflows and allows for seamless updates and maintenance. This multifaceted approach showcases my technical proficiency and my ability to architect robust and resource-efficient hosting solutions, offering a flexible and organized environment for multiple websites while adhering to best practices in version control and server management.

- I have extensive experience in configuring and deploying E-Learning Systems, such as Moodle, on Linux Servers hosted on AWS EC2 instances with Apache. Beyond this, I've demonstrated proficiency in managing multiple websites on the same server, each secured with SSL certificates from Let's Encrypt. I've ensured the seamless operation of these certificates by implementing automatic renewal mechanisms as they approach their expiration dates. This holistic approach not only showcases my technical prowess in system administration but also underscores my commitment to providing secure and reliable e-learning environments for multiple users while adhering to best practices in SSL certificate management.

- I have successfully designed and developed a comprehensive project management system using a unified web application approach. The system features a ReactJS frontend coupled with a Node.js Express backend, seamlessly connected to a MySQL database through Sequelize. This integrated platform empowers managers by providing robust tools for staff performance analysis, project timeline management, and precise project cost analysis, particularly beneficial for architecture and design projects. This project underscores my proficiency in full-stack development and my ability to create efficient, data-driven solutions to meet complex business needs, all while enhancing project oversight and performance tracking.

- I have significant experience and a track record of success in a project focused on resolving long website response times attributed to bottleneck loading and the presence of unnecessary functions. In this undertaking, I meticulously diagnosed the performance issues plaguing the website, identifying critical bottlenecks, and streamlining the functionality. Through strategic optimization and removal of redundant features, I successfully improved the website's responsiveness, enhancing the overall user experience. This project showcased my ability to troubleshoot and address complex performance challenges, ultimately resulting in a faster, more efficient web platform.

- I have successfully designed, analysed, and implemented a robust computer and networking system utilizing Microsoft Server technology, incorporating domain names for streamlined network management. The primary project objective was to establish seamless data synchronization between two geographically distant office locations, each with its networking infrastructure. The system was meticulously configured to achieve real-time data synchronization, ensuring that staff members could operate seamlessly across both locations, as if they were working within the same physical office. This achievement not only showcased my expertise in network design and implementation but also highlighted my ability to create solutions that bridge geographical gaps, facilitating efficient, real-time collaboration among teams.

- I have played a pivotal role in analysing, designing, and developing an advanced ordering system that seamlessly integrates the manufacturing and customer company systems. This innovative solution allows for bulk order uploads from the customer's end and subsequently generates precise order lists for the production system by meticulously analysing both product stock levels and customer requests. Moreover, the system is equipped to generate real-time order status reports and dispatch notifications to customers as soon as their orders are allocated production slots. This comprehensive project underscores my proficiency

in system analysis, database design, and software development, demonstrating my ability to create efficient, interconnected systems that enhance operational efficiency and customer satisfaction.

- I have successfully developed an ERP system for a container packaging company that significantly improved their operations. The system effectively analyses stock levels, aligning them with production planning needs. It can generate precise material purchasing lists, optimizing inventory management by reducing excess stock while ensuring efficient supply to the production line. This project showcased my technical proficiency and demonstrated my ability to enhance production efficiency through data-driven solutions, contributing positively to the company's bottom line.

PROFESSIONAL EXPERIENCE

Computer network and systems engineer, Sydney College, Australia | Feb 2021 – Present
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 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 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 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 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**
  Academic manager: Sydney College
  Phone: +61 468464848
  Email: latha.karlekar@gmail.com
  LinkedIn: linkedin.com/in/lathakarlekar
- **Chantal Abouchar**
  Founder, CEO: The Studio
  Phone: +61 438304090
  Email: chantal@thestudio.org.au
  LinkedIn: linkedin.com/in/chantalabouchar
- **Leanne Wiseman**
  Head of Hospitality Department Training Assessor
  Phone: +61 423133981
  Email: lealeawise@gmail.com
- **Lavina R Lobo**
  Trainer: Education Centre of Australia partnered with ACS
  Phone: +61 430770683
  LinkedIn: linkedin.com/in/lavinadsouza