

Khai Xuen Tang

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Professional Profile

An aspiring and enthusiastic 4th year software engineer acquired with strong technical skill ready to get into work environment. Seeking for a software engineer position that offers the opportunity to tackle real world problems.

EDUCATION

2022 - 2026 Technological University of the Shannon, Midlands, Athlone Campus

Bachelor in Software Design with AI for Cloud Computing

Relevant courses: Web Development, Server-side Development, Databases, Networking, Data Structure & Algorithm

WORK EXPERIENCE

Alpha Red Solutions

Software Developer Intern

Jan 2025 - Sep 2025

- Developed admin system for travel agency using Vue and Vuetify while following company's code standard and programming best practices.
- Implemented dynamic form rendering using conditional logic to show or hide fields based on user input.
- Performed robust input validation to prevent incorrect data submission and unnecessary api call to optimize backend performance.
- Collaborated and coordinated closely with cross-functional teams and customer to streamline product development process.
- Diagnosed and resolved a production issues related to API using chrome debugging tool, successfully restored the system.

PROJECT EXPERIENCE

Fullstack blogging website

Apr 2025 - Sept 2025

- Fullstack blogging website created using React, Tailwind and Express.js, with Tailwind for styling and Firebase Cloud Storage and MongoDB for storing files and data.
- Developed REST API using Express.js to perform CRUD actions while adhering to API design best practice to increase usability.
- Ensured application security by implementing secure authentication (JWT/OAuth2), input validation, and strict type checking during backend development.
- Tested and validated REST API using Postman to ensure reliable backend functionality and seamless integration with the frontend.

Game character showcase website

Sept 2024 - Oct 2024

- Designed a full-stack web application using jQuery, PHP, and MySQL to showcase game character profiles with dynamic data interaction and responsive UI.
- Optimized SQL queries to retrieve and process data from relational databases efficiently.
- Developed backend endpoints using the Slim PHP framework to fetch and deliver data efficiently to the frontend.

Abalone age prediction machine learning model

Sept 2025 - Oct 2025

- Utilized sklearn to build an abalone age prediction model, successfully achieved an accuracy of 54%.
- Performed data exploration using Pandas and Matplotlib, identified outliers, and conducted feature engineering to improve data accuracy.
- Assessed model performance using cross-validation and metrics such as RMSE, MAE, and R² score to ensure reliable results.

INTRESTS

- Joined the Global Ambassador Program to support the International Department in enhancing cultural exchange and international student engagement.
- Actively engaged in tech all kinds of competitions, tech conferences and online discussions.
- Strong self-taught ability: currently learning system development and graphic programming.

SKILLS

- Java, Python, Javascript, Typescript, PHP, HTML, CSS, Git, SQL, C++