

TARIN PAIROR

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EDUCATION

National University of Singapore

Bachelor of Computing in Computer Science

- Minor in Statistics

Expected May 2026

EXPERIENCE

NUS Centre for Computing for Social Good & Philanthropy (Singapore), VOLUNTEER

May 2024 - Present

- Building a web application focused on providing educational resources and fostering social interaction for the underprivileged with Next.js (React.js) for a dynamic and user-friendly interface, ASP.NET Core (C#) for robust server-side logic and data management, PostgreSQL for efficient data storage and retrieval.
- Played a key role in designing the system architecture through the creation of UML diagrams and Entity-Relationship Diagrams (ERDs) and the login page interaction flow through activity diagrams, ensuring a smooth user experience.

Orbital Project (Apollo): NUScheduly (Singapore), CO-DEVELOPER

May 2023 - Jul 2023

- Architected a student-centric web application featuring task storage, flashcards, a dynamic forum page, and an auto-updating Monthly Calendar interface for seamless organization and boosted user experience.
- Employed React Vite TypeScript to design a polished and user-friendly interface, merging React's framework capabilities with improved development experience of TypeScript.
- Engineered backend infrastructure, utilizing Cloud Fire store for streamlined task management through its NoSQL structure.
- Incorporated Firebase Auth to establish a secure authentication system, ensuring tasks and login information are seamlessly stored and retrieved, crucial for application's functionality.
- Demonstrated a commitment to software engineering principles through implementation of rigorous testing methodologies, including Jest and Enzyme, for comprehensive user and integration testing decreasing error likelihood and organizing.
- Co-led web application development with a team member, promoting effective teamwork through iterative README versions, comprehensive architecture and flow diagrams, and disciplined branch control.

Sanguan Wongse Industries Co., Ltd (Nakhon Ratchasima, Thailand), INTERN

Sep 2020 - Sep 2020

- Conducted research on development of cassava food products and collaborated with others in chemically modifying foodstuffs to reach a suitable state for production.

PROJECTS

Kaggle Flood Prediction Competition, DEVELOPER

May 2024 - May 2024

- Built a custom neural network architecture with Python TensorFlow to predict flood probability from a Kaggle dataset.
- Leveraged machine learning techniques to achieve a high level of prediction accuracy for flood events at an R squared score of 0.861.

Taylor4u, DEVELOPER

Dec 2023 - Jan 2024

- Created and deployed a dynamic, fully-operational Full-Stack web application forum, featuring seamless CRUD operations, an intuitive tagging system facilitating post discovery, and integrated Microsoft Azure AI sentiment analysis for text comprehension.
- Constructed a robust backend infrastructure with Go and GORM Object-Relational Mapping, supporting a PostgreSQL database enhancing HTTP requesting, ensuring efficient and secure communication within the application.
- Elevated the user interface experience through React Vite TypeScript framework, coupled with the aesthetic enhancements from Tailwind CSS styling.

Microsoft AI Classroom Hackathon: Nudge, CO-DEVELOPER

Nov 2023 - Dec 2023

- Organized a team in developing an AI-driven education web application expanding on the "Feynman Technique" to boost learner retention by over 50% having users explain concepts to AI models, receiving personalized feedback for better comprehension.
- Specialized in AI implementation, utilizing the OpenAI API for generating responses and deploying Microsoft Azure tools, particularly Azure AI's Linked Entities, to enhance AI feedback while developing capabilities in prompt engineering.
- Collaborated on front-end development using ReactJS and Tailwind CSS, ensuring a visually appealing user interface.

Full-Stack Data Science Salary Predictor, DEVELOPER

Jan 2024 - Jan 2024

- Crafted and implemented a sophisticated classifier model on Python3 with data analysis tools such as Pandas to discern whether an individual's salary in the field of data science surpasses or falls below the industry average with an accuracy of 70%.
- Executed the integration of an exported model into a robust Back-End Flask server via REST, complemented by a Front-End design employing HTML, CSS, and Javascript.

MIP Simulator, DEVELOPER

Nov 2023 - Nov 2023

- Crafted a MIPS process simulator in C, adeptly handling a diverse range of common MIPS commands, ensuring correct modification of registers and seamless memory access.

VOLUNTEER EXPERIENCE

Youth English Game Club Event, VOLUNTEER LEADER

Oct 2020 - Oct 2020

- Taught mathematics and English skills to 10+ disadvantaged grade schoolers through English-taught games such as Hangman and Scrabble in Thailand for a day seeing immediate improvement in English comprehension through testing before and after.

- Designed a poster using Canva for advertising the event and a form for attendance to allow children to sign up.

ACHIEVEMENTS

- Represented Thailand National Scrabble Youth Team and won the World Youth Scrabble Championship in 2019.