

TOM DANG

Software Engineer

My Portfolio Website

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 0466 613 802

 Melbourne, VIC

PERSONAL PROFILE

Having recently graduated from Swinburne University with a Bachelor's in Computer Science majoring in Software Development, I was awarded the Swinburne Excellence Scholarship and a Letter of Commendation for outstanding academic performance. I am currently searching opportunities to learn and grow my technical capability and soft skills while contributing to productive working environment in the industry.

TECHNICAL SKILLS

Programming: C#, Java, Python, C++, Javascript, PHP, SQL, HTML, CSS.

Frontend and Backend: React, React Native, Next.js, Svelte, Vue.js, TailwindCSS, Bootstrap, Node.js, Express.js, FastAPI, MongoDB, Supabase, Rest APIs.

Cloud and DevOps: AWS suite(EC2, RDS, S3), Cloud Computing, Git, GitHub.

Tools and Design: Jira, Confluence, Adobe Photoshop, Adobe Illustrator, Figma, ChartJs, Microsoft Office suite, UI/UX, Youtube Studio

TRANSFERABLE SKILLS

- Problem Solving
- Effective Team Communication
- Critical Thinking
- Conflict Resolution
- Adaptability
- Innovative Thinking
- Teamwork
- Time Management
- SCRUM Framework
- Analytical Skill
- Active Listening
- Organisation

WORK EXPERIENCE

Software Engineer Intern @ MarkMyWords - Melbourne, Victoria

February 2024-January 2025

Played a crucial role in integrating AI capability into a central hub for different LMS (Learning Management System). Utilised collaboration and communication skills to work with different clients and cross-functional teams to meet expectation.

Responsibilities:

- Led API management and backend configuration using Gemini 2.5 API and Supabase services, resulting in an efficient web application for educators with less than 15% error rate
- Contributed to frontend development, resulting in a responsive and user-friendly interface, raising user satisfaction by 20%
- Utilised AWS suite (S3) to store packages and documents needed for the functionality of the web application
- Organised team meetings to ensure efficient and effective team communication and actionable outcomes by documenting meeting minutes
- Organised meetings with 2 different stakeholders, effectively understanding their needs, leading to a 15% increase in project efficiency by altering project scope.
- Authored exhaustive documentation on system architecture, requirements, design specifics, and alternative solutions, therefore, improving team understanding and project efficiency.
- Integrated cutting-edge AI functionalities to the web application, amplifying its capabilities to aid educators in traditional manual tasks like managing assessments and grading assessments.
- Created mock-ups and mood boards to visualise work flow through Adobe Illustrator and Figma.

All-rounder @ Stix Dessert Bar - Melbourne, Victoria

May 2022-November 2023

Provided reliable front of house and back of house services. This role equipped me with time management skills, customer service skills, and conflict resolution capability.

Responsibilities:

- Managed Front of House and Back of House tasks in a food truck, while also managing employee roster changes every week for efficient working environment.
- Managed inventory at the end of every midnight shift for efficient planning of groceries and equipment.
- Resolved any problem related to internal conflicts or customer dissatisfaction.

IB Science Tutor @ Annie Wright Upper School - Tacoma, Washington

January 2020-December 2021

Provided lesson plans and practice materials for high school students struggling in Calculus, Chemistry and Biology. This role equipped me with teamwork skill, adaptability, innovative thinking in order to keep my students interested.

Responsibilities:

- Organised one-on-one session with different students throughout the week to go over testing materials and practice materials for upcoming exams.
- Graded multiple assessments from different subjects while giving meaningful feedback to help student improve and understand the materials effectively.
- Resolved any problem related to students dissatisfaction.
- Reported back to head teachers regarding students' results and progress while learning

REFERENCES - Available Upon Request

James Smith - Founder @ MarkMyWords
jimsmith.education@gmail.com

An Dang - Manager @ Stix Dessert Bar
+61 452-128-120

Ivy Tran - Graphic Designer @ MarkMyWords
ivy.tran3006@gmail.com

PROJECTS

More projects listed at: tomdang.netlify.app

Streaming Website with Working Stream Server (React, TailwindCSS, TMDB, MoviesAPI, Firebase) ↗ April 2025 - On Going
Developed a comprehensive streaming platform using React.js and styled-components for the frontend, integrating TMDB API and MoviesAPI for extensive movies and TV show content. Implemented Google Firebase Authentication for secure user login and session management. Built core streaming functionalities including high-quality video playback, trailer previews, content categorisation, and search filters. Designed based on a Disney Plus-inspired responsive UI/UX interface. The platform delivers real-time streaming capabilities. [Project Demonstration](#). [Link to Website](#)

AI-driven Assistant Tool for Quiz Generation and Assessment Management (Next.js, FastAPI, Supabase, S3) ↗ February 2024 - January 2025
Designed a web application that can be integrated into LMS capable of utilising AI to streamline manual educators' tasks like creating, managing, and grading assessment. Project focused on prompt engineering, API management and response format to deliver error-free experience while also providing an intuitive interface for easy use and access. [Project Demonstration](#).

Decentralised Marketplace (React, MaterialUI, Python, FastAPI, Ethereum Blockchain) ↗ October 2023 - November 2023
Designed a Decentralised marketplace using React and MaterialUI for the front-end, FastAPI for backend, and integrated Ganache Ethereum blockchain for secure transactions. Implemented crucial features like asset display, advanced search filters, and smart contract-based transactions. Created responsive UI/UX designs to enhance user navigation and experience. The platform acts as a secure medium for buying digital assets, supported by blockchain technology. [Project Demonstration](#).

Taskivist - Android Simple Todolist App with Persistent Storage using Room (Kotlin, RoomDatabase, Delta Asset) ↗ September 2023 - October 2023
Developed a native Android ToDoList application using Kotlin and Jetpack Compose for the frontend, implementing MVVM architecture with RoomDatabase for local persistent storage. Built essential features including task creation, editing, deletion, and completion tracking with date-based organisation and priority. The application is 100% offline with optimised performance for minimal Ram usage. [Project Demonstration](#).

Archery Database - Glenferrie Archery Club ↗ March 2023 - April 2023
Developed a robust, user-centric database for an archery club utilising phpMyAdmin, MySQL, Confluence, and Jira for project management. The system streamlined the score recording process of practice rounds and tournament rounds for each archer. Aided in efficient management of archer personal details and competitions. [Project Demonstration](#).

AWS Serverless Architecture for Photo Album Application January 2023 - February 2023
Designed a scalable cloud architecture for photo album app using a suite of AWS services including SNS, SQS, Lambda Function, and S3. Utilised Route 53 for DNS routing, CloudFront for low-latency content delivery, and Step Functions for management of inter-connected micro services. The model is optimised to handle a medium volume of daily active users, while ensuring cost-efficiency and high availability. VPC is not taken into account for this project

EDUCATION

Bachelor of Computer Science (Major: Software Development)

Swinburne University of Technology | Melbourne, Australia

February 2022 - November 2024

- Grade: 3.417/4 - Distinction
- Achieved top 25% ranking within chosen field
- Awarded Letter of Commendation from Vice Chancellor
- Awarded Swinburne International Excellence Scholarship

IB Diploma (Science)

Annie Wright Upper School for Boys | Tacoma, Washington

August 2017 - May 2021

- Grade: 41/45 - A+
- Achieved IB Honour Award
- Awarded Annie Wright International Scholarship

CERTIFICATION

AWS Cloud Practitioner Certificate

June 2024 | AWS

AWS Cloud Practitioner with Udemy

June 2024 | Udemy

Ultimate React Course with Udemy

June 2025 | Udemy

EXTRACURRICULAR

IoT Swinburne Contest - Participant | Melbourne

Participated in developing an intrusion detection system using raspberry Pi and Arduino board. The system sent intrusion alert using Discord bot to notify owner of intrusion attempt using temperature and motion sensors. Users can activate alarm using Discord command. Facilitated the system through ThingsBoard Cloud

IB CAS Project - Participant | Tacoma

Participated in a production team that produce short Youtube Videos helping young international students with depression and homesickness. I took on the role of VJ to deliver scripts from production team for the videos.