

Dahao Tang

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EDUCATION

University of Sydney February 2021 – December 2025
Bachelor of Advanced Computing (Computer Science) WAM: Distinction

University of Sydney February 2021 – December 2024
Bachelor of Commerce (Finance) WAM: Distinction

SKILLS

Languages: C, Python, Java, JavaScript/TypeScript, HTML/CSS, L^AT_EX

Tools: GPT APIs, Git/GitHub, HuggingFace, Unix Shell, Vim

Frameworks: Flutter, React, Next.js, Node.js, Express, Flask, Django, Tailwind, Shadcn.ui, Prisma

PUBLICATIONS

Stability-Driven CNN Training with Lyapunov-Based Dynamic Learning Rate

- Conference: ADC 2024
- Authors: **Tang, D.**, Yang, N., Deng, Y., Zhang, Y., Sani, A.S., Yuan, D.
- Keywords: Convolutional Neural Networks · Control Theory · Lyapunov Stability Analysis · Learning Rate
- Status: *Waiting for Accept*

Adaptformer: An Adaptive Multimodal Deep Decomposition Approach for Power Consumption Forecasting

- Conference: ADMA 2024
- Authors: Yang, N., Zhang Y., Wang, Y., **Tang, D.**, Li Y., Yuan D.
- Keywords: Time Series Forecasting · Multimodal Data · Power Consumption.
- Status: **Accept**

PROJECTS

ProteHome | *Project with Prof. David E James at Charles Perkins Centre USYD* June 2024 – Present

- Tech Stack: Django, Postgresql, etc
- Role: Engineer
- *Still in process*

ioulia.ai | *Startup: AI-empowered Tarot-based spiritual support chatbot* January 2024 – July 2024

- Tech Stack: OpenAI API, WeChat
- Role: Co-Founder, CTO
- Experience gained:
 - * Personal WeChat-based chatbot development
 - * LLMs engineering for long conversations

GigHero | *Startup: an online marketplace for onsite services* April 2023 – August 2024

- Tech Stack: React, Express.js, Prisma, Apollo GraphQL, Tailwind, Shadcn.ui
- Role: Co-founder, Web developer, Business strategy maker
- Experience gained:

<ul style="list-style-type: none"> * React-based website development * Market research, User investigation 	
Next.js User Authentication Template <i>Personal Monthly Project</i>	December 2023
<ul style="list-style-type: none"> • Tech Stack: Next.js, Next.js server actions, Tailwind, Shadcn.ui • Features: <ul style="list-style-type: none"> * Credential register and login * Social login * Email verification (with Resend) * Reset password 	
Searten Web Platform <i>An MVP platform for Searten</i>	August 2023 – November 2023
<ul style="list-style-type: none"> • Tech Stack: React, Flask, AWS, Prisma, Tailwind, Shadcn.ui • Experience gained: <ul style="list-style-type: none"> * PDF saved to PostgreSQL and the retrieval and download * Team management * Communication with clients without tech-background 	
AI Tutor Assistant <i>Personal Monthly Project</i>	October 2023
<ul style="list-style-type: none"> • Tech Stack: Jupyter Notebook • Tried out Prompted engineering and Fine-tuning • Help human tutors summarize the exercises done by each student every day in a given format 	
Personal Website <i>Personal Monthly Project</i>	September 2023
<ul style="list-style-type: none"> • Tech Stack: Next.js, Tailwind, Shadcn.ui • dahaotang.com 	
Student Management Platform <i>MVP platform for an IELTS institution</i>	2022 – 2023
<ul style="list-style-type: none"> • Tech Stack: Django, Docker • Experience gained: basic website development skills, Agile development 	
File System Implementation with FUSE <i>University Project</i>	2022
<ul style="list-style-type: none"> • Tech Stack: C • Support: Large file and large directory 	
OS Scheduler Implementation <i>University Project</i>	2022
<ul style="list-style-type: none"> • Tech Stack: C • Round Robin, MLFQ 	
Secure End-to-End Messaging Web Application <i>University Project</i>	2022
<ul style="list-style-type: none"> • Tech Stack: Python, JavaScript, SQL • Experience gained: WebSocket API (MDN Web Docs, 2022a), SubtleCrypto interface from the Web Crypto API (MDN Web Docs, 2022b) 	
Vending Machine Application <i>University Project</i>	2021
<ul style="list-style-type: none"> • Tech Stack: Java, Swing, SQLite, MVC design pattern • Experience gained: basic Java desk environment application development skills. 	

EXPERIENCE

USYD <i>Tutor</i> Tutor of ISYS2120	2024 S2
Tuna Edu <i>Parttime developer</i> Teaching platform developer, AI-based customer support developer	June 2024 – Present
Ori-Fire <i>Founder</i> A reading club with over 50 members	August 2019 – Present
Tutoring <i>Self-employed Tutor</i> Chinese middle school English, Mathematics, Physics; A-Level Java	2019 – Present
Reading Method Teacher <i>Partner</i> Taught sixth to ninth-grade students methods of reading books systematically	2021 – 2022
English Teacher <i>Part time</i> Oral English teacher at a private English training institution. Taught over 100 students	2020 – 2022