Tanapong Dechsakul

Address: Adelaide, SA 5000 | **Phone:** 0435 752 699 | **Email:** tanapong11027@gmail.com
LinkedIn: www.linkedin.com/in/tanapongdech | **Website:** tdech.me

A recent Master of Information Technology graduate with an interest in system and software development, particularly in building systems and software solutions that support data analysis, improve decision-making, and facilitate or automate business processes. Experienced working in DevOps process and using various technologies in full-stack development through personal and university projects. Focus on teamwork, collaboration, and a proactive attitude towards learning.

SKILLS

Programming Languages:	Python, Java, C#, HTML, CSS, JavaScript, TypeScript
Version Control:	Git, Github Actions
Databases:	Azure SQL, PostgreSQL, PHP MyAdmin
Cloud Services:	Azure, Vercel
Web Development:	React.js, Next.js, ASP.NET
Web Design:	MIRO Board, Figma
Testing & Quality Assurance:	JUnit
Machine Learning:	TensorFlow 2.0, PyTorch
Project Management:	Jira Task Management
DevOps Management:	Azure DevOps
Business Analysis:	Requirement Analysis, Use Case Analysis, Data Analysis and Visualisation Using Python

WORK EXPERIENCE

Manual Software Tester (Freelance)   **Aug 2019 - Oct 2019**
IGET UGOT Co., Ltd. | Bangkok, Thailand
Tested a web application for a Point of Sale (POS) system.
- Analysed user interfaces and use cases to ensure alignment with system requirements.
- Conducted manual testing across multiple platforms, including Windows and Android, to identify and resolve issues.
- Followed test case procedures to verify system functionality and reported defects for resolution.
- Performed negative testing (e.g., uploading large image files) to evaluate system stability and performance.

Restaurant System Administrator   **Jun 2017 - Aug 2019**
Highway Steak Restaurant and Heng Charoen Butchery Restaurant | Bangkok, Thailand
- Installed and maintained CCTV systems, with cloud-based storage for video files.
- Set up and managed Point of Sale (POS) and payment systems, supporting CSV data exports for reporting and visualisation in Excel.
- Analysed costs, sales, and inventory data to generate detailed performance reports and business insights.
- Maintained dashboards for menu creation, cost tracking, inventory control, and income and expense auditing.

PROJECTS

Financial Data Analysis for Algorithmic Trading (Jun 2023 – Present)

Objective: To create a money machine, an automated system that can fetch real-time financial market data, analyse and predict financial market trends regarding trading strategy, and utilise machine learning-based systems to optimise the trades, to be more robust and dynamic. The system is specifically for algorithmic trading in the Forex market, where the trading system and strategy can be applied to other trading markets.

Core Technologies: Spyder IDE, Python with important libraries including Numpy, Pandas, JSON, OS, Datetime, TensorFlow 2.0 (Keras), PyTorch, Metatrader 5, and Plotly for visualisation.

Key Tasks: • Created a system to fetch real-time financial data.

• Implemented data preprocessing, including calculating data features used for filtering trading signals, applying trading strategies, and splitting data into training and testing sets.

• Created training environments, applying machine learning algorithms to optimise trading signals.

• Created testing environments or customised backtesting systems used for measuring trading efficiency.

Results: The system achieved 70% trading accuracy in training datasets and 62% in testing datasets with the trading symbol NAS100. The trading model is scalable and applicable to other financial assets, such as commodities and indices. However, to maintain the system's robustness, new data features may have to be implemented, strategies refined, and machine learning kept learning over time. This project can demonstrate an understanding of data analysis, data engineering and financial engineering.

Asset Tracking Application - tdech.me/assetApp (Mar 2025)

Objective: The application was built as a self-study project. To develop an application that allows users to combine all of their assets, keep tracking their values, and visualise the assets' growth in real-time, which can be used for further financial planning.

Core Technologies: VS Code IDE, C# with ASP.NET Core framework, JavaScript libraries including React.js, TypeScript, Tailwind CSS, Azure SQL and Neon PostgreSQL database, Azure Web App - Cloud Services, and GitHub.

Key Tasks: • Designed and developed full-stack functionality including asset groups, currency conversion, real-time market value calculations, asset group breakdown, and asset growth visualisation features.

• Implemented backend to connect and fetch data from SQL database and various APIs.

• Implemented CI/CD pipeline with GitHub actions and deployed backend services on Azure Web App.

Results: Developed a functional prototype that allows users to manage and visualise multi-asset portfolios on one platform. However, the deployment on a free-tier environment may cause slower response times. This project can demonstrate the understanding of the development process on both the frontend and backend using C# with the ASP.NET framework, and the use of databases and APIs.

TDech LLM – My Second Brain (AI Assistant) - tdech.me/assistant (Feb 2025)

Objective: To create a Large Language Modelling (LLM) AI assistant designed to provide information about myself and assist with job applications by analysing job requirements against my experiences, qualifications, and skills.

Core Technologies: VS Code IDE, Python with Flask web framework and OpenAI library, and Vercel cloud platform.

Key Tasks: • Designed and developed frontend for conversational interaction, and implemented file upload handling for PDF/DOCX/TXT files.

• Developed backend services using Python with the OpenAI library.

• Implemented the Retrieval-Augmented Generation (RAG) process to improve search relevance and Fine-Tuning process for training the OpenAI LLM models.

Results: Developed a smart assistant that can analyse job descriptions, enhance job-matching efficiency and deliver valuable insights for job opportunities. The project demonstrates the potential in learning new technologies, and the understanding and implementation of full-stack development with the integration of an AI service.

EDUCATION

Flinders University | Adelaide, SA, Australia   **Feb 2023 - Dec 2024**
Master of Information Technology, GPA: 6.62/7.0

Ramkhamhaeng University | Bangkok, Thailand   **Jun 2011 - Oct 2013**
Bachelor of Business Administration, GPA: 3.46/4.0

OTHER EXPERIENCE

FIFO Utilities (Casual)   **Sep 2022 - Jan 2023, Nov 2023 - Jan 2024, Dec 2024 - Feb 2025**
Techforce Staffing Services Pty. Ltd.
- Assigned to Compass Group | Olympic Dam & Roxby Downs Village, SA
- Assigned to AssetLink | Windy Valley Camp, Coober Pedy, SA

Key Skills Acquired: • Strengthened communication and teamwork skills in high-pressure environments.
                       • Applied safety and hazard identification procedures in line with organisational protocols.
                       • Maintained attention to detail, time management, and adaptability in dynamic work settings.

Farm Worker (Working Holiday Visa)   **Jan 2020 - Dec 2022**
Various Farms, Australia

Key Skills Acquired: • Developed time management skills through meeting daily targets in fast-paced environments.

                       • Collaborated effectively with multicultural teams to achieve operational goals.

                       • Demonstrated adaptability and resilience while working in new and challenging environments.

CERTIFICATIONS

- CyberOps Associate (Cisco)
- Data Analytics Professional (Coursera)
- PyTorch: Deep Learning and AI (Udemy
- React, Real-World Projects (Udemy)
- CCNA: Overview of Networking Components

- Walmart: Advanced Software Engineering (Forage Virtual Experience)
- Tensorflow 2.0: Deep Learning and AI (Udemy)
- MERN Stack (Udemy)
- Financial Engineering and AI in Python (Udemy)
- Generative AI: OpenAI, DeepSeek, and ChatGPT in Python (Udemy)

Additional Qualification:

- Australian Driver's Licence
- Work with Children Check (WWCC)

- Work Safely in the Construction Industry (White Card)

AWARDS

Go Beyond Scholarship - Flinders University
- Recognised as a top-performing international student, demonstrating academic excellence and potential to contribute positively to Flinders University and the global community.

Chancellor's Letter of Commendation - Flinders University
- Excellent performance in the Master of Information Technology program at the College of Science and Engineering, demonstrated by outstanding academic achievement and a high GPA.

REFEREES

Available upon request.