Brian Tham

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Education

Singapore Institute of Technology

August 2023 – April 2026

B.Sc. (Hons), Applied Artificial Intelligence. GPA: 4.41/5.00

Singapore

 Relevant Coursework: Mathematics 1 & 2, Machine Learning, Computer Vision and Deep Learning, Large Language Models, Data Structures and Algorithms, Cloud Computing and Big Data

Tallinn University of Technology

July 2025 - July 2025

Intensive Programme in Cybersecurity

Tallinn, Estonia

Visits to NATO CCDCOE, CR14, Maritime Cyber Security Centre, and Clarified Security

FPT University

August 2024 – August 2024

Short course in Computer Vision and Deep Learning

Da Nang, Vietnam

Achieved Best Accuracy of Model award

Singapore Polytechnic April 2018 – April 2021

Diploma in Information Technology – Game Development

Singapore

Relevant Coursework: AI & Machine Learning

Experience

Agency for Science, Technology and Research, Institute for Infocomm Research (I2R)

September 2025 – April 2026

Singapore

A*STAR Research Internship Award (ARIA)

Researching on Foundation Models, Vision Foundation Models, Vision-Language

- Foundation Models, Image super-resolution and denoising
- Diagnosed and resolved complex multi-GPU workstation boot issue, applying systems-level hardware troubleshooting to minimize research downtime
- Provided technical support for research compute infrastructure, leveraging deep hardware knowledge from personal PC building experience

Singapore Institute of Technology

September 2024 - December 2024

Research Assistant

Singapore

- Researched and conducted literature review on AI Model Security
- Implemented UNet model for brain MRI segmentation

Ministry of Defence

October 2021 – August 2023

Admin Support Assistant (National Service)

 Automated data processing and visualization, condensing a 24-hour procedure into 30 minutes with PowerBI

 Performed comprehensive data cleaning and validation on raw operational logs in Excel

Lee Kong Chian School of Medicine

September 2020 - February 2021

Digital Learning Intern

Singapore

Singapore

- Boosted tests scores by 20% through tailored e-learning solutions
- Spearheaded the digital transformation of anatomy reference materials
- Developed e-learning game with single and multi-player learning options

Projects

Multimodal LLM Profanity Detection

nightey3s-profanity-detection.hf.space

- Multimodal and context-aware profanity detection and detoxification
- Dockerized and deployed on HuggingFace as a web application

nightey3s-foodvision.hf.space

FoodVision - Deep Learning Food Detection System

Web-based real-time food detection system utilizing YOLOv8

ser.tham.ai

Speech Emotion Recognition using Wav2Vec2

• Achieved 69.02% accuracy on IEMOCAP dataset

Technical Infrastructure & Hardware Experience

Built and configured a personal desktop and a home media server

- Running Tailscale, Jellyfin, and a multi-service *ARR stack for 24/7 service and remote connections
- Implemented storage pooling and caching to optimize media serving and data access
- Personal Desktop: 10-core 10th Gen Intel i9-10900K & RTX 3090 Ti; gaming and deep learning workstation
- Home Media Server (HP EliteDesk 800 G5): 6-core 9th Gen Intel i5-9500; for transcoding media with Intel QSV

Cross-platform proficiency

• Experience with Windows, Linux (Ubuntu), and MacOS environments; perform hardware diagnostics and firmware updates to ensure stability

Hardware maintenance and upgrades

 Performed preventative hardware maintenance on desktops and servers, including thermal paste replacement, dust cleaning, RAM/SSD upgrades, and BIOS updates to maintain optimal performance

Skills & Interests

Technical: Python, R, C, C#, C++, PyTorch, Tensorflow, Docker, Git, GCP, AWS, PowerBI, Linux

Language: Native English and Conversational Chinese

Certifications: Google Cloud Certified – Professional Machine Learning Engineer