

Warot Tharanamai

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EDUCATION

University of British Columbia

Bachelor of Applied Science – Computer Engineering

- Outstanding International Student Award

Vancouver, Canada

September 2023 - May 2027

WORK EXPERIENCE

APSC 160 Undergraduate Teaching Assistant

UBC Electrical and Computer Engineering

Vancouver, BC

Aug. 2025 – Present

- Worked as part of a teaching team supporting over 700 students in the Introduction to Programming in C course
- Conduct weekly lab sessions and delivered presentations and demonstrations to explain programming logic, algorithms, debugging techniques, and computational design applications.
- Graded programming assignments, quizzes, and exams with feedback to support continuous learning.

Software Engineer Intern, AI/ML

Skyller Solutions

Bangkok, Thailand

June 2025 – Aug. 2025

- Developed a computer vision model using YOLO architecture to automatically detect and count steel pipes from drone footage of warehouse yards, enabling more efficient inventory monitoring.
- Prepared and annotated custom datasets, optimized model training pipelines, and fine-tuned hyperparameters for improved detection accuracy.

Club President | Promotional Director

UBC Thai Aiyara Student Club

Vancouver, BC

Apr. 2024 – Present

- Led executive team in planning and executing club events that promote Thai culture within the UBC community.
- Facilitated regular meetings to align team goals, monitor progress, and foster collaboration among departments.
- Designed graphics, posters, and promotional materials; managed social media content across Instagram, Facebook, and Line.

Computer Aided Design Specialist

UBC Rapid

Vancouver, BC

Sep. 2023 – Sep. 2025

- Developed precise 3D CAD models for various projects; collaborated with team members and external stakeholders to deliver customized design solutions.
- Created rapid prototypes to test and validate design concepts, contributing to an iterative design process.
- Diagnosed and resolved technical issues related to 3D printing processes, ensuring smooth production workflows.

TECHNICAL EXTRACURRICULARS

Autonomous Driving Car | ROS2, Python, LiDAR

Jan. 2026 – Apr. 2026

- In a team of 5, built a real-time self-driving system using ROS2 with LiDAR for navigation in simulated and physical environments.
- Implemented driving and safety algorithms (Gap Follow + Automatic Emergency Braking) to avoid obstacles and navigate the track and built a track mapping and race line optimization pipeline, generating occupancy maps to improve stability, speed, and lap consistency.

Insurance Cost Predictor | Python, Streamlit, Scikit-learn, Heroku

Apr. 2023 – July 2023

- In a team of 4, developed an insurance cost prediction model leveraging Kaggle's public dataset; successfully deployed on Heroku.
- **Won 1st place** in the Insurance Industry category at Botnoi HackFest 2023, competing against 500+ teams.
- Collaborated with FWD Group and Botnoi to develop an Insurance Plan Suggester integrated within the Omne App and Line Official Account.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, PHP, Node.js, HTML, CSS

Frameworks & Tools: ROS2, Streamlit, Scikit-learn, YOLO, Git, VS Code, IntelliJ, ModelSim, Quartus, SOLIDWORKS

Software: Microsoft Excel, PowerPoint, Canva, Procreate

Certifications: SOLIDWORKS CAD Design Associate (CSWA), HarvardX CS50