

**Tharisata (Tempy) Charoenvasnadumrong**  
**Software Engineer at Cisco | 1st Class Cambridge Graduate (MEng)**  
+447902002891, tharisatac@gmail.com

## Experience

SEP 2021 -  
PRESENT

### **Cisco | Software Engineer** - LONDON, UK / (REMOTE)

- Developed 2 tools as part of a team working on migrating the entire CISCO IOS XR codebase to a faster and more scalable build system.
- Researched, designed and wrote a vast range of APIs, from interacting with GitHub REST APIs to SQLite databases which have streamlined the work for other engineers.
- Completed module, component and integration tests across several tools and ensured over 95% code coverage resulting in tools operating more reliably and error-free.

AUG - SEP  
2020

### **Eseye | Software and Machine Learning Intern** - GUILDFORD, UK / (REMOTE)

- Mined, pre-processed and cleaned over 1,500,000 entries of raw customer data using Pandas and Scipy which offered more accurate information.
- Performed Principal Component Analysis and developed a KMeans clustering algorithm to group 3 different types of customers.
- Trained several regression models via Scikit-Learn, including Ridge, Lasso, RandomForest and GradientBoosting to predict revenue 3 to 12 months in advance. Minimized the error to only 7% through hyperparameter tuning.
- Implemented a front-end in Flask and deployed 9 models serverlessly onto Amazon Web Services via AWS Lambda, AWS Gateway and Zappa which ensured ease of use for clients.

JULY - SEP  
2019

### **ABB | Robotics Intern** - SINGAPORE

- Taught 7 (1 Day) training sessions for client engineers from Panasonic, Philips, and more on the fundamentals of ABB Robots and programming them.
- Delivered around 50 new, virtual 3D simulations of robots for the sales team across 13 projects which helped procure between £10,000 to £30,000 per project.
- Programmed 4 different robots and the collaborative robot, YuMi, including a 'Coffee Bar Project': Refactored and simplified existing code and wrote the full recovery procedure.
- Operated YuMi during Fong's Engineering's 'Smart Factory Journey' opening ceremony attended by the Singaporean Senior Minister of State, Koh Poh Koon.

## Education

2017 - 2021

### **University of Cambridge, Information and Computer Engineering, MEng (4 Years)**

#### **1st Class - Honours with Distinction, The David Thompson Prize**

Modules include Advanced Information Theory and Coding, Probabilistic Machine Learning, Deep Learning and Structured Data, Computer Vision, Robotics, Control, Image Processing;

- **Labs:** Facilitated a 'Flood-Warning System' in Python, tested material properties and performed data compression in Python. Simulated flight control in MATLAB. Assembled an autonomous robot to simulate nuclear waste decommissioning.

2015-2017

### **Concord College** - SHREWSBURY, UK

**5A\*s - A-Levels/AS:** Further Maths, Maths, Physics, Chemistry, Extended Project Qualification.

2012-2015

### **Canford School** - WIMBORNE, UK

**10A\*s - GCSEs:** Maths, Physics, Chemistry, Biology, and Others.

## Projects

OCT 2019 -  
PRESENT

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### **Part-Time Tutor for Univesity Admissions, A-Levels and GCSE**

Dedicated over 250 hours tutoring students for interviews in Engineering at the University of Cambridge and Oxford, and at A-Levels and GCSE. Several got offers from Oxbridge.

SEP 2020 -  
MAY 2021

### **Master's Project: Robot-Assisted Animal Surgery (awarded 1st class)**

Utilizing an industrial robot, computer vision and control engineering to explore the possibilities and precision of a robot-assisted animal knee surgery.

MAR 2020 -  
MAY 2020

### **Bachelor's Project: Logic Simulator in Python**

Employed object-oriented programming to produce a logic simulator in Python in teams of 3. Created text scanner, parser and test modules. Adopted Git and GitHub for code collaboration.

JULY 2020

### **Online Course: Machine Learning by Stanford University**

Achieved 95%; Covered supervised and unsupervised learning and neural networks. Completed all coursework on MATLAB.

JAN 2020

### **24-Hour Hackathon: Hack Cambridge**

Developed front-end using HTML, CSS and Python for a web app that detects 8 unique emotions. Utilized Facial Recognition on Microsoft Azure to give compliments to users.

SEP 2018 -  
DEC 2018

### **Cambridge University Robotics Society**

Constructed a robot to pick up small objects in teams of 10: project included an AutoCAD design, laser printing, wiring and programming an Arduino.

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## Soft Skills

Languages

English (Native Proficiency), Thai (Native Proficiency)

Leadership

### **Captain of Cambridge Thai Society Football Team:**

Spearheaded the Thai Football Team against other Thai teams based in other UK universities; the team came 4th out of over 30 teams, the highest ever ranking for Cambridge, in the annual nationwide Thai tournament.

### **Vice President of Cambridge University Thai Society:**

Organized Thai Food Festival: assigned tasks such as shopping, cooking and selling food. Liaised with other societies for sporting competitions and socials.

### **Head Boy at Concord College:**

Led over 50 prefects in the orientation for 200 new students. Organized tours for prospective parents.

Sports

1st in Concord College Cross Country (2016), 4th best Thai football team in the UK (2019, 2020), Captain of Football and House Squash (2015)

Music

Piano (Grade 4), Saxophone (Grade 2)

Voluntary  
Work

Raised £3500 for Safe Child Thailand by shaving my head.  
Completed 50 hours of Community Service for V50 Inspired Award.

**Referees are available upon request.**