Wei Tat **Lee**

International student looking for any IoT / Machine Learning internship or full time graduate roles in the UK.

EMAIL weitat95@live.com
PHONE +44 (0) 7511 429386
GITHUB /weitat95

EDUCATION

MSc Computer Science, The University of Edinburgh   Sep 2018 - present
Thesis: "An Investigation on the security aspects of blood pressure monitoring devices"

BEng Electronics and Software Engineering, The University of Edinburgh   Sep 2014 - May 2018
Undergrad thesis: "Demonstration of Visible Light Communication using LED(s)"
2-1 Class Degree

BEng Computer Engineering, The University of Texas at Austin   Aug 2016 - May 2017
Visiting Exchange Student

SKILLS

Proficient Python, C, Java, Hadoop, SQL, PCB Designs

Prior Experience C++, web development, Android development, Haskell, MATLAB, Javascript

Areas of Interest Embedded Systems, Security, Internet Of Things

Languages NATIVE: English, Mandarin PROFICIENT: Cantonese, Malay, Hokkien

EXPERIENCE

Graduate Project   June 2019 - present
- Finding security vulnerabilities in the QardioArm Blood Pressure monitoring device
- Using WireShark to reverse engineer communication packets
- Deploying a Men in the Middle (MITM) attacks

Undergraduate BEng Project   Aug 2017 - May 2018
- Built the whole system to demonstrate Visible Light Communication (VLC) LED(s)
- Used Texas Instrument(TI) launchpad (ARM Cortex M4) to interface with the components
- Developed an RTOS embedded system for both the transmitter and the receiver in C programming language

Lead Assistant Coach, Edinburgh Chinese Badminton Club - *Edinburgh, UK*   Sep 2017 - present
- Led a team of assistant coach in assisting badminton coaching sessions.
- Organized and managed local badminton tournaments
- Getting qualified as UKCC Level 1 Scotland Coach

Team Member, UT Austin Autonomous Racing Team - *Austin , TX*   Sep 2016 - May 2017
- Developed and programmed the drone's control system, which is a SISO nonlinear feedback control system
- Programmed and tweak the RTOS to increase overall response time of the drone

PROJECTS

Image Captioning – GitHub
- Image captioning using encoder/decoder architecture with PyTorch
- Compared between Soft and Adaptive Attention mechanisms in LSTMs
- Research Paper

Paxos – GitHub
- Built an simulated a distributed protocol to solve consensus in a network of unreliable nodes
- Developed mainly using Java Socket (TCP/UDP) Libraries
- This paxos protocol assumes no Byzantine Failures

The IoT – GitHub
- The IoT, an IoT system that regulates temperature and logs data into a cloud server
- Capable of sensing gas leaks and sends alerts to user through mobile text messages by using Twillio Apis
- The IoT also uses google app engine (GAE) cloud Apis to store temperature data –The IoT

AWARDS & RECOGNITION

Best Assistant Coach for Badminton   2017
Being awarded the most influenced Assistant Coach for Edinburgh Chinese Badminton Club

Yonex EBA Silver Doubles May 2017   2017
2nd place in mens double badminton tournament in the club division

Racing Competition, UT Austin   2016
Pegasus has been awarded the first prize in the UT Austin Racing Competition

International Exchange Program, University of Edinburgh   2015
Being selected among 10 student to participate in the international exchange program to the University of Texas, At Austin