

# Yap Wei Lok

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## WORK EXPERIENCE

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### Continental Automotive

May. 2018 – Aug. 2018

*Research Intern*

*Singapore*

- Researched on automotive electrical control unit (ECU) bootloader security
- Proposed and presented proof-of-concept ECU secure boot protocol written in C

## EDUCATION

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### Singapore University of Technology & Design

Dec. 2019

*BS, Computer Science*

*Singapore*

- Most recent GPA: 4.0 / 5.0
- Relevant coursework: Software Engineering, Machine Learning, Deep Learning, Security, Algorithms etc.
- Treasurer of Skate club in 2018, Member of Volleyball club in 2017

## SKILLS & INTERESTS

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- **Skills:** Web Backend – Flask, Django, Heroku, SQL (novice), MongoDB (novice) | Web Frontend – HTML, CSS, JavaScript, JSX, ReactJS | Others – Python, Java, C++, C (novice) | Misc – PyTorch, Bash, Unix, Git, LaTeX
- **Languages:** English – fluent | Chinese – basic (conversation and written) | Japanese – basic (conversation)
- **Interests:** Meeting like-minded people | Problem solving | New technology | Japanese culture

## PROJECTS

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### NVIDIA AIRA

Jan. 2019 – Aug. 2019

*Backend / Data Pipeline*

- Capstone project in collaboration with researchers at NVIDIA Artificial Intelligence Technology Center, SG
- Contributed in Django backend and designed data / text processing pipeline with Python
- Rated 20% more user-friendly as compared to existing tools like Frase.io by beta testers
- Nominated for outstanding projects in SUTD Capstone Presentation 2019

### LANL Eartquake Prediction

Apr. 2019 – May. 2019

*Deep Learning*

- PyTorch deep learning application to forecast earthquakes based on laboratory acoustic data taken from LANL
- Worked together with 2 other members to implement and compare various existing neural network models
- Best model (PWaves-DenseNet) achieved 2.20 validation mean absolute error (MAE) and 1.69 test MAE

### StackerOverflow

Feb. 2018 – Apr. 2018

*Field Programmable Gate Array (FPGA) Programming*

- Homage to the Stacker arcade game
- Implemented using Mojo FPGA in LucidHDL, complete with custom-made game cabinet
- Voted best project of the CSE course 2018 and later showcased in SUTD Open House 2018

### Others

2017 – 2019

- **2019:** PhotonRT (C++) | PascalVOC image classification (PyTorch)
- **2018:** Archwing Ethereum dApp (ReactJS, Solidity) | PyTor Browser (Electron, Python) | Twitter POS Tagging (ML / NLP, Python) | STUDChat (ReactJS, MeteorJS)
- **2017:** SG Temple Tour (Android) | ProfChoper (jQuery, Java Spring)