

Shang-Wei Hung (Alan)

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Seeking **2020 Full-time** in Software Engineer/ Machine Learning Engineer
Currently in San Diego, CA with F1 visa

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shangweihung.github.io

SKILLS

Programming Language: Python, C/C++, Java, JavaScript, Node.js, HTML, CSS, R, MATLAB

Miscellaneous: PyTorch, TensorFlow, Django, Flask, Express.js, Pandas, MySQL, MongoDB, SQLite, Linux, Git

PUBLICATION

“Incorporating Luminance, Depth and Color Information by a Fusion-based Network for Semantic Segmentation,” in *IEEE International Conference on Image Processing*, 2019.

EDUCATION

University of California San Diego (UCSD)

La Jolla, CA

B.S. in Electrical and Computer Engineering, Machine Learning and Data Science

Sep. 2018 - June 2020

- **Current GPA: 3.75/4.0**
- Courses: Statistical Learning, Machine Learning for Image Processing, Sensing and Estimation in Robotics, Programming for Data Analysis, Recommender System and Web Mining, Computer Vision

National Chiao Tung University (NCTU)

Hsinchu, Taiwan

B.S. in Electrical Engineering and Computer Science

Sep. 2013 - June 2017

- Rank: 3/28; Overall GPA: 4.05/ 4.30, 89.87/ 100

WORK EXPERIENCE

Software Engineer Intern

July 2019 - Aug. 2019

Trend Micro

Taipei, Taiwan

- Achieved 3 kinds of **dashboards on Splunk** for monitoring the CPU, memory usage, local storage usage, the health of thread, etc. in each endpoint.
- Developed automatic alert system via slack using anomaly detection in Splunk Machine Learning toolkit.
- **Expedited problem-solving time about 30%** by my Splunk App.

Research Assistant

June 2018 - Oct. 2018

Communication Electronics and Signal Processing Laboratory, NCTU

Hsinchu, Taiwan

- Investigated **autonomous driving semantic segmentation model** using RGB and Depth information.
- **Achieved 71.3% mIoU** on the Cityscapes dataset **with 3.3% improvement over baseline**.

PROJECTS

Hsinchu Foodie Blog |Node.js, Express.js, MongoDB, HTML, CSS, Bootstrap

March 2020

- Developed **RESTful API** with searching engine, adding new restaurant and edit restaurant information features.
- Linked application with a **NoSQL database** designed by myself using **MongoDB**.

Shopping Cart API |Node.js, Express.js, MySQL

March 2020

- Developed server side application with member register/login/make order/edit order/order confirmation email service.
- Designed **MySQL database** schema with member, product and order features.
- Utilized **Postman** to fully examine functionalities.

E-Commerce Online Shopping Website |Python, Django, HTML, CSS, Bootstrap

Feb. 2020

- Implemented **Model View Control** architecture using **Django** with login/register, shopping cart, checkout features.

Goodreads Rating and Read Prediction Challenge on Kaggle |Python

Nov. 2019

- **Improved about 6% accuracy** by implementing **collaborative filtering** of user and book similarities.
- Formulated the task to pairwise preference prediction solved by **latent factor model (SVD algorithm)**.
- **Achieved top 21%/ 28%** among 423/ 847 competitors on Rating/ Read Prediction.

Random Straws Drawer System Web Application |Python, Flask, SQLite, HTML, CSS

Aug. 2019

- Proposed and Established meeting speaker straws drawer system with adding new member/ admin-login feature.
- **Designed SQL database schema** and linked with Flask REST API.

Domain Adaptation on Different Weather Road Scene Segmentation |Python, PyTorch

Mar. 2019

- Incorporated a domain classifier into two-stream FCN8s to align cross-domain features.
- **Achieved 5-10 % mIoU improvement** in the SYNTHIA dataset.