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# **EDUCATION**

## Rice University

Houston TX | Dec 2021

Master of Computer Science GPA: 4.0/4.0 (Current)

# National Taiwan University (NTU)

Taipei, Taiwan | Jan 2019

B.S. in Computer Science and Information Engineering (CSIE)

Honor: Presidential Award (Ranked first 2018 Fall) | GPA: Cum - 3.85/4.3, Last 60 - 4.18/4.3

#### **CURRENT PROJECTS**

# HS Modeled COVID-19 Map | Rice University

Houston TX | Fall 2020 - Now

- Course: COMP554, ELEC 591 Long-Term Project
- Concept proof: Whether <u>Hope-Simpson Epidemic Influenza Model</u> could be applied to COVID-19.
- Technologies used: React.JS, Python, PyTorch, Tableau, Google Data Studio, PostgreSQL

# Full-Stack Web App | Rice University

Houston TX | Fall 2020

- Course: COMP531 Web Development
- Develop a MERN based multi-user <u>Facebook-liked</u> web app on Surge/Heroku.
- Technologies used: MERN (MongoDB, Express, React.JS, Node.js), Redis, Redux, Jest/Enzyme...

#### WORKING EXPERIENCE

# Beyond Media Global | Technology Intern Taipei, Taiwan | Nov 2018 - Jun 2019

- Cut clients' weekly reports processing time by more than 90% by implementing the full-stack of Adeqo - a Ruby on Rails, Python, PostgreSQL based SEO data retrieval and analysis platform.
- Rewrote the E-newsletter for DiscoverHongKong to a <u>responsive mobile-friendly</u> version.
- Client websites maintenance. IT support.

### Academia Sinica | Research Assistant

Taipei, Taiwan | Apr 2018 - Jul 2020

(Internship: Apr 2018 - Jun 2019, Full-time Assistant: Jan 2020 - Jul 2020)

EMCLab, Research Center for Information Technology Innovation, Prof. Pi-Cheng Hsiu

- Distributed deep learning: DLaaS Designed 60% experiments for DDL strategies (ex. Synchronous Ring/Parameter-Server/Round-Robin) with vanilla Tensorflow and Uber's Horovod on AWS/GCP.
- Embedded DL: **Real-time** performance SSR-Net (Age estimation network) on Nvidia TX2.
- Intermittent DL: New convolution strategies for intermittent IoT devices (with TI MSP430/432).

#### NTU CSIE WM Team | Team Lead

Taipei, Taiwan | Sep 2017 - Jun 2019

The WM (Workstation Management) Team maintains and refines the Arch/Ubuntu/BSD workstations that serve more than a thousand members of our department.

- Made <u>server deployments</u> (ex. package installation, make commands, or edit system files) <u>more than</u> **15x faster** by constructing a <u>Puppet server master</u> to achieve automated deployment.
- Front-end of the new <u>HTML5 responsive server monitor</u>. Replaced the crude old one.
- Server maintenance: built AUR, set up new servers, modified Linux commands such as LPR, etc.

## Teaching Assistant | NTU CSIE

Taipei, Taiwan | Feb 2018 - Jun 2018

Designed homework and projects, graded tests, TA hours for course Data Structures and Algorithms

### **SKILLS**

Ruby | Python