Yi-Fan(Jeff) Shih

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EDUCATION

New York University, United States   Sep'19 - May'21
M.S., Computer Science
National Chiayi University, Taiwan   Sep'14 - Jun'18
B.E., Computer Science and Information Engineering   **GPA:3.87 / 4.0**
- Related Course: **Algorithm**(97/100), **Data Structure**(90/100), **Software Engineering**(95/100)

PROJECTS

NYC CityStreets   Sep'19 - present
Course project, Product Owner and Software Programmer
- On-going house searching project used ZillowAPI, Craigslist, Leaflet, NYC OpenData, and Google Map API.
- Optimized application loading time by **40%** by creating our own API and background updating external resource.
- Integrated rental data from Zillow API and Craigslist into our own housing model with Google Map Geocoding.
- Increased test coverage by **35%** by using **Tests Double** (mock and fake) on internal/external API. **(Python)**
- Introduced CI/CD on **Django** project to **Heroku (PaaS)** by using **TravisCI** + **GitHub**.

Detect and Protect the server from DDoS in Software-Defined Network   Jan'17 - Jun'18
Research project, Inventor
- Reduced the server break-down rate from **90% to 15%** as measured by 7000+ times simulated DDoS attack.
- Protected the server from DDoS attack with OpenFlow-based **SDN** application using RYU framework.
- Enabled website administrators to check/operate the network condition on the switch with the webpage.
    Used **Django** framework and **SQLite** for the back-end. (**Python**)
    Used **YAML** to deploy SDN switches and their network configurations on **Docker**. (**Linux**)

Visual-experienced Improvement of Dcard (forum-like social network)   Nov'16 - present
Hackathon project, Leader and Software Programmer
- Achieved visual improvement while received 88% positive feedbacks from 35060 forum users.
- Enabled users to surf the wordy forum homepage with a featured picture of each article.
- Fetched the URL of images in the article with Dcard **APIs**, parsed and stored them with **MongoDB**.
- Built the innovative and intuitive reading style of Dcard using **HTML, CSS, PHP, JavaScript**.
- Rebuilding the back-end infrastructure with **Golang**.

EXPERIENCE

Full-stack Web Developer (Part-time), *National Chiayi University*   Dec'15 - Jun'18
- Built the curriculum and course information system for the Department of Chinese Literature for 4000+ users.
- Developed the system in full-end with back/front-end language use: (**HTML, JavaScript, PHP, MySQL**)

TA in Algorithm, *Department of Computer Science at National Chiayi University*   Feb'18 - Jun'18
- Lectured and provided feedback for the homework of 100+ students.
- Built local judgment to compile and test students' code with **Bash.** Shorten **60%** time on marking students' code.

AWARDS
- **First-Class Academic Excellent Scholarship (Top 1 of 55)**   Sep'16 - Feb'17
    Department of Computer and Information Engineering, National Chiayi University, Taiwan
- **2015 ITSA Annual Collegiate Programming Contest (Top 4 out of 64 Teams)**   Jan'15 - Jun'15
    C/C++ Algorithms Programming contest at National Cheng Kung University, Taiwan.
- **The Best Design Prize, 2016 Smart City Hackathon (32 Teams)**   Nov'16
    Website: Provided users with a newly intuitive forum reading style. National Chiao Tung University, Taiwan.

TECHNICAL SKILLS
Programming Language: C, C++, Java, Python, PHP, JavaScript (ReactJS), HTML, Bash;   **Platforms**: Heroku, AWS;
Database: PostgreSQL, MySQL, SQLite, MongoDB;   **Operating Systems:** Linux, Unix, Windows