

HSUEH-HUNG CHENG

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## EDUCATION

### **Carnegie Mellon University**, Pittsburgh, PA

Master of Science in Information Networking, May 2016

Cumulative GPA: 3.73/4.00

Fall 2015: Cloud Computing, Storage Systems, Search Engines

### **National Taiwan University**, Taipei, Taiwan

Bachelor of Science in Computer Science, June 2011

Overall GPA: 3.73/4.00

## RELEVANT COURSES

Introduction to Computer Systems

Introduction to Information Security

Computer Networks

Distributed Systems

Machine Learning

Database Systems

Wireless Sensor Networks

Artificial Intelligence

Probability

## SKILLS

Computer Languages: Java, C, Python, Ruby, Scala, JavaScript, HTML

Web Application & Other Skills: Servlet, RoR, MySQL, MongoDB, Git, Vim, Google Cloud Platform, AWS

Operating Systems: MacOS, Ubuntu, Debian, and other Unix-like systems

## EXPERIENCE

### **Software Engineer**, Jul 2016 – Present

#### **TripAdvisor, Inc, Boston, MA**

- Write code at all levels, including UI, servlets, backend services, and storage applications to facilitate data mining, data analysis, and statistical modeling
- Develop **Java** programs to perform ETL, helping team analyze data and optimize online marketing
- Build tools to manage large multi-national paid online ads with 200K campaigns and 100M keywords with Google AdWords, Bing Ads, and Facebook APIs
- Increase search engine marketing revenue by 20%

### **Software Engineer Intern/Part-Time**, Jan 2016 – May 2016, Sep 2016 – Dec 2017

#### **EEme, LLC, Pittsburgh, PA**

- Built an RESTful API server with **Flask**, **Apache2**, and **MySQL**
- Developed a distributed data pipeline for energy analytics with **Docker**, **Python**, and **RabbitMQ**
- Deployed and managed the system with **Kubernetes** on **Google Container Engine** and **Azure**

### **Web Developer**, Feb 2014 - Jun 2014

#### **PChome Online Inc, Taipei, Taiwan**

- Built an API server with **Java Servlet** and **MongoDB** for website and smartphone Apps
- Developed browser extensions including four platforms: Chrome, Firefox, Safari and IE
- Constructed the administration console with **jQuery** and **Foundation** framework

### **Research Assistant**, Aug 2012 - Dec 2013

#### **Research Center for Information Technology Innovation, Academia Sinica, Taiwan**

- Assisted with research topics including traffic offloading in cellular network and network mobility, managing academic projects and surveyed research references
- Implemented algorithms and conducted experiments in **C** language

## PROJECTS

### **The Fleet** - distributed mobile vehicle system

Wireless Sensor Network, CMU, Spring 2015

- Built a wireless sensor network where a cluster of mobile vehicles move in certain formation
- Used **Python**, **OpenCV** and a webcam to position vehicles in real time and send commands

### **Gravel** - real-time operating system kernel for ARM processor

Fundamentals of Embedded Systems, CMU Fall 2014

- Built a RTOS kernel with context switching and rate-monotonic scheduling in **C** and **Assembly**
- Implemented basic system calls (read, write, exit, sleep, time, mutex\_lock, and mutex\_unlock)

## HONORS

- Best Paper Award, IEEE Asia-Pacific Services Computing Conference: Dec 2011
- Presidential Award, NTU: Spring 2011