Chuan Liu

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA May 2018
B.S. in Computer Science, School of Computer Science *QPA: 3.75 Major: 4.0*
  • **Grader**, **21-127 Concepts of Mathematics.** Grade about 30 students' homework weekly
Honors / Awards:
  •**Dean's List,** School of Computer Science Spring 2015 & Fall 2015
  •**Champion of Red Robotic Hackathon,** used Java, Arduino to write a dancing robot which moves
    by pitch and beat extracted from music files by Aubio library Nov 2014

PROFESSIONAL EXPERIENCE

Dropbox **San Francisco, CA**
Software Engineer Intern May 2017 – Aug 2017 (expected)
- Migrated vacuuming policy from unsharded **Mysql** to **Edgestore**, by using a **double write** logic,
  writing a **backfilling script** and a **consistency checker**. Then, migrated all data reads from Mysql to Edgestore.
- Rewrote **vacuuming** computation by creating a new NamespaceMemberVacuum table and creating two
  asynchronous tasks which listen to changes of **Access Control List** and **Mount** state.

Salesforce **Atlanta, GA**
Software Engineer Intern May 2016 – Aug 2016
- Wrote a batch process for denormalizing and uploading certain fields from sharded **Mysql** to **Salesforce Wave**.
- Replicated **GoodData** Dashboard which includes Marketing KPIs and graphs on Wave Analytics platform.
- Fixed email API and **Google Adwords** bugs and created additional columns for List Email Stats report grid in **Php**.
- Wrote **Selenium** test using **Java** for **Kendo Grid**.
- Added deletion functionality for provisioning Wave App for accounts in Admin console.

Neon **New York, NY**
Full-Stack Engineer Intern June 2015 – Aug 2015
- Implemented some backend APIs for both customer and business side using **Flask/Python**.
- Designed models for saving and reading data using **MongoDB** with **Mongoengine** as ORM.
- Implemented frontend customer-side Hybrid-Mobile app using **Ionic** and **cordova**.
- Integrated third party APIs, such as **Facebook Login & Graph**, **Google GeoCoding** & **Place API**.

PROJECTS

Open Domain Text Comprehension
- With another member, developed a program to do multiple choices for MCTest as Machine learning final project.
- Used various NLP techniques, libraries like **tokenization**, **POS-tag**, **Nltk**, and **WordNet**, etc.

CMU CSA Website (www.cmucsa.com)
- Developed both backend and frontend for CMU Chinese Student Association with another team member.
- Implemented User System, Voting Platform, etc. Deployed on **Heroku**.

Profile
- Designed and wrote IOS App in **Swift**, which users can record friends' important moment for IOS App Challenge.

Game AI
- Programmed AI in **Python** using modified **MiniMax Algo** for Algorithms with a Purpose: Space Base Race.

Mistakes
- Designed and implemented IOS app which user can record their mistakes in exams by taking photo,
  arranging by subjects, and re-testing themselves in the future, in **Obj-C**.

AutoSwitch
- Lead a team of four to design and write a system, that auto switches light based on number of people inside the room.

PROFESSONAL SKILLS

Programming Language: C/C++, Python, Java, Php, SML, Javascript, Html/Css, Obj-C/Swift
Framework and Library: Flask/Django, Symphony, Selenium, Express, Node, JQuery, Angular
Database: Mysql, MongoDB, Edgestore