Yang Shi

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EDUCATION

New York University *2016/09 - 2018/05*
M.S. Computer Engineering, Awards: Grad School of Engineering Scholarship *New York, U.S.*

Beijing University of Posts and Telecommunications *2012/09 - 2016/05*
B.S. Electrical Engineering, Awards: 3rd Prize Scholarship (2012-2014) *Beijing, China*

INTERNSHIP EXPERIENCE

Stack Technology, Inc *2018/01 - 2018/05*
Front-End Developer, MoneyWall App *New York, U.S.*

- Participated in mobile app front-end development and **data visualization** using **React Native**, through working with UI designer, create corresponding view component
- Contributed to implement user **authorization** and **authentication**, through JWT(Javascript Web Token) and OAuth

Huawei Corporation *2016/02 - 2016/03*
Project Assistant, IMS (IP Multimedia Subsystem) *Cairo, Egypt*

- Participated in facilitating technical and administrative project, building and testing IMS on both server and client side with team, monitoring the working condition and data flow of equipment

PROFESSIONAL EXPERIENCE

Chrome Extension for Youtube Project *2018/05 - 2018/06*

An app for enhancing user experience whening listen to music while studying, integrated with recommender system

- Developed **global keyboard control** and **ads skipping** functions through DOM manipulations and Chrome APIs
- Designed tag based **recommender system** according to users' behavior and watching history with Youtube V3 APIs

Web Application Development *2017/12 - 2018/04*

A search engine webiste for checking harmful ingredients to pregnancy in cosmetics

- Built **web crawler** in **Python Scrapy**, crawling all (7000+) products on Sephora. Designed URL extracting rules in RegEx, solved JS **lazy-loading** by applying headless Chrome as middleware to manipulate DOM before parsing
- Developed **responsive** single page app in **React (ES6)** for looking up cosmetic products, combined with **React-Router** and **Redux**, accomplished features including keyword searching, pagination and ingredients testing etc..
- Created back-end **RESTful API** for fetching data in NoSQL using Node.js **Express** and deployed on Amazon EC2

Speech Recognition Desktop Camera Project *2017/10 - 2017/11*

- Designed and implemented speech recognition module using **PyAudio** and **PocketSphinx** library, applied multi-thread to run with **Tkinter** UI at the same time
- Contributed to implement video processing algorithms including zooming, bluring and brightness controling through **OpenCv2**, and filters loading from Photoshop ACV file using **Numpy**

Machine Learning Research *2017/09 - 2017/11*

Prediction and Analysis of Crime Occurrence Based on Local Demographic and Economic Data based on Python

- Contributed to dataset pre-processing using **Pandas**, and apply **model selection** methods including **LASSO** regularization to filter high correlation factors
- Responsible for implementing variety of algorithms to calculate prediction models, including **linear regression**, **neural network** and **support vector machine**

Web Application Development *2017/04 - 2017/05*

A dynamic crowed funding website implemented in Node.js, Mysql and Bootstrap

- Designed database model according to **paradigm**, creating the database and inserting test samples
- Contributed to implement front-end part including searching page, project page using **Bootstrap** and **Jade**, and back-end features including user login, project search and session storage, through Node.js **Express** framework

TECHNICAL SKILL

- Programming Languages: Javascript/HTML/CSS, Python, Java
- Framework & Library: React, React Native, Bootstrap, Node.js, Flask, Mysql/Nosql, Hadoop/Pip Latin/R
- Web Development Tools: Git, Webpack, NPM, PIP, AWS