Zequn Yu

Objective: Software Engineering Intern in Summer 2020

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EDUCATION

JAN.19 - *Present*	MSc Computer Science, **University of Southern California (USC)** Los Angeles Expected to graduate in **January 2021**
SEPT.14 - JUN.18	BSc Computer Science, **University of Nottingham (UoN)** Ningbo-Nottingham 1st class honours • GPA: 3.93/4 • Advanced courses: Haskell, Machine Learning

SKILLS

PROGRAMMING	Python, JavaScript, Java, C++, Swift, MATLAB, HTML/CSS, MongoDB, MySQL
FRAMEWORKS	React, Flask, Scrapy, Pandas, PyQt5, Next.js, Bulma, Caffe
TOOLS	Git, Travis CI, Netlify, LaTeX, Vim, Markdown, Prezi, Pixelmator

EMPLOYMENT

MAY.19 - *Present*	SDE student worker, **USC Robotic Embedded Systems Lab** Los Angeles Maintain the open-sourced reinforcement learning framework project: **garage** (450 ★) in Python, with emphasis on system design and implementation (20+ commits to master branch, 10,000+ lines change) • Refactor the core of garage: LocalRunner and experiment API • Contribute to Travis CI test (improved codebase coverage by 2%) and peer code review (reviewed 10+ Pull Request)
JUN.18 - NOV.18	Full stack software engineer, **WorthNote Co., Ltd.** Shanghai Collected and analyzed 400,000+ graduate application data records using Python Scrapy, Pandas and MongoDB • Refactored company website using Javascript and React (Reduced loading time by 50%) • Experienced hosting back-end server (RESTful API) at Aliyun cloud using Flask, Gunicorn and Nginx
JUL.17 - OCT.17	Research + SDE intern, **Chinese Academy of Sciences** Beijing Worked at Key Lab of Intelligent Information Processing with *Prof. Shiguang Shan* • Studied source code of Caffe framework and experienced its API in C++ and Python • Implemented end-to-end code for facial Action Unit (AU) detection with Large-scale unlabelled data in semi-supervised learning
JUN.16 - SEPT.16	SDE intern, **Global Tone Communication Tech Co., Ltd.** Qingdao Crawled 20+ websites and collected 2G+ bilingual text data in English-Chinese for *YeeSight* project using Python • Experienced web crawling libraries: beautifulsoup4, requests and selenium

PROJECTS

NOV.18 - APR.19	**uRank - University Rankings Collection** Los Angeles Collected and performed 5 years QS/Times/ARWU/USNews ranking data using Python Scrapy • Built React website for data visualization, and deployed with Netlify continuous integration • Experienced JavaScript ES6, create-react-app, Next.js, Bulma, styled-components and Chart.js
OCT.17 - MAY.18	**Workload and Facial Expression Linkage Analysis** Nottingham UoN Mixed Reality Lab	Advisor: *Dr. Max Wilson* Recruited 20 participants for facial and brain workload data collection • Used fNIRS brain scanner to evaluate workload • Built PyQt5 GUI software for HCI experience • Benchmarked facial AUs and fNIRS by machine learning models such as SVM, ANN using MATLAB and achieved 73.3% on F1 score
SEPT.16 - MAY.17	**Travel Dashboard: Travel Expense Track and Analysis** Nottingham UoN & Atos UK Limited	Advisor: *Prof. Natasa Milic-Frayling* Developed JavaFx desktop software to support travel expense track from Excel raw data input to PDF report generation • Built user system using MySQL • Coordinated with *Atos UK*'s engineers and experienced agile development • Achieved highest personal score (92) of the year in CS school