Zequn Yu

Objective: Software Engineering Intern in Fall 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, TypeScript, Java, Swift, HTML/CSS, C++, MongoDB, MySQL
FRAMEWORKS	React, Flask, Node.js, Express, Angular, JavaFx, Scrapy, Pandas, PyQt5, Caffe
TOOLS	Git, AWS, Xcode, Travis CI, Netlify, LaTeX, Vim

EMPLOYMENT

MAY.19 - *Present*
SDE student worker, **USC Robotic Embedded Systems Lab** 📍 Los Angeles
Maintained the open-sourced reinforcement learning framework: **garage** (500+ ★) in Python, with emphasis on system and API design (20+ commits to master branch, 10,000+ lines change) • Refactored the core of garage: LocalRunner and experiment API • Contributed 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
Refactored company portfolio website in Javascript ES6 and React (Reduced loading time by 50%) • Experienced hosting back-end server (RESTful API) at Aliyun cloud by Flask, Gunicorn and Nginx • Collected and analyzed 400,000+ graduate application data records using Python Scrapy, Pandas and MongoDB

JUL.17 - OCT.17
SDE + Research 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 + Test 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 • Used JUnit for performance and integration test of translation API in Java

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, hosted data by Node.js and deployed with Netlify CI • 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