Tianyi Lin

(929)384-4888 | tianyi.lin@columbia.edu | GitHub: @jackie1031 | LinkedIn: @JackieTianyilin | New York, NY

Currently Seeking Software Engineer Internship Opportunities for Summer 2020

EDUCATION

Columbia University	New York, NY
M.S. in Computer Science	Expected Dec 2020
Johns Hopkins University	Baltimore, MD
B.S. in Computer Science, *B.S. in Mathematics*, **GPA: 3.82**	Graduated Dec 2018

TECHNICAL SKILLS

Languages: Java, Python, TensorFlow, Pandas, C++, C, Scala, HTML, CSS, JavaScript, SQL, R, MATLAB, ROS
Miscellaneous: Git, Linux, MongoDB, Docker, Node.js, Play Framework, React, Travis CI, Heroku, VMWare

PROFESSIONAL EXPERIENCE

Rally Health, Inc., technology company under United Health Care — San Francisco, CA
Full Stack Software Engineer Intern — Jun 2019 – Aug 2019

- Added "future published" feature (HTML, CSS, Javascript) for activities in plan tool and checked for activities with overlapped launch dates in the backend (Scala, Play, MongoDB), then allowed user to change current activity or fix previous activity, this feature improved user experience for more than 12,000 administrators
- Experienced the full development cycle (release process) from development, unit testing (Jasmine, Robot), automation, integration to production

Hulu, LLC — Beijing, CN
Software Engineer Intern — May 2018 - Aug 2018

- Combined (Python, TensorFlow, Pandas) an original deep-and-shallow CNN framework with a SIFT-similarity model to automate intro skipping for movies and TV shows, achieved 88% accuracy
- Implemented (Python) key word search algorithm to detect and locate recaps in TV shows, achieved 94.6% accuracy

Dantrick, start up company providing online chemical resistance guide — Baltimore, MD
Data Analyst Intern — Nov 2017 - Present

- Automated (OCaml, Tesseract) conversion for chemical resistance data tables from PDF to Google Sheets which reduced the average work time per table by 98%
- Collected (Python) more than 50 different data sources online, cleaned and transformed entries into spread sheets
- Developed (JavaScript and HTML) web interface for a biochemistry engineering database

Institute Of Computing Technology, Chinese Academy Of Sciences — Beijing, CN
Machine Learning Research Intern — Jun 2017 - Aug 2017

- Cleaned (Python) nearly 4,500 hours of live stream data from 7 streaming platforms, identified usage patterns with SVM, random forest, and logistic regressions
- Assessed live stream server performances and delivered reports with data visualizations for 4 business groups

CGTN AMERICA — Washington, D.C.
Web Development & DevOps Engineer Intern — May 2016 - Jul 2016

- Designed and implemented (PHP, SQL, WordPress) photo gallery for CGTV website, which were used on more than 3000 news post per month, and created special topic page templates which had 74% more clicks than normal page

PROJECTS

WalkLive — Baltimore, MD
iOS Application — Sep 2017 - Dec 2017

- Implemented (Swift and SQL) iOS application with Gaussian Mixtures models to display crime density heat map as users travel, alert users upon entering high risk area, and allow users to share real-time trip info

Conformance Test for Signal Cryptographic Protocol — Baltimore, MD
Research Project, Supervisor: Dr. Anton Dahbura — Mar 2017 - Present

- Modeled signal cryptographic protocol(Java, FSM), created a conformance test harness for signal protocols, generated test sequences to test conformance of the widely-used signal cryptographic protocol through the test harness

INTERESTS

HopHacks (hackathon), JHU Robotics Team, Co-Captain at Hopkins Club Tennis, Volunteer at Baltimore Museum of Art