WENLONG XIONG

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WORK & EXPERIENCE

Bloomberg, Software Engineering Intern — June 2018 – Sept 2018

- Wrote an event ingestion service using Kafka for Instant Bloomberg Chat that checks permissions and filters every message sent from Bloomberg terminals realtime, before routing them to downstream applications
- Created python utility library around Apache Kafka that multiple services in the IB Chat team use to read from and write to Kafka topics
- Advocated for the quicker adoption of Python 3 features in new services (dataclasses, static type checking, f-strings, etc)

Geschwind Lab, Undergraduate Researcher — April 2017 – Dec 2017

- Implemented autoencoder neural network in Python using Theano and Lasagne to perform classification and denoising on gene expression data
- Investigated novel network architecture that used adversarial networks together with autoencoders to reduce batch error in biological data

Hulu, Software Engineering Intern — June 2017 – Sept 2017

- Rewrote testing script in Python that generated headless web clients to stress and soak test the Hulu Live TV service
- Used Apache Aurora to run load testing jobs on an Apache Mesos cluster, and used NewRelic to collect log information
- Created UI for load testing application using JQuery, Flask, and Redis

Texas Instruments Product Marketing Intern — June 2016 – Sept 2016

- Wrote Energia library in C/C++ to provide software support for newly released 4G LTE Evaluation Kit (EVK4) by Telit Communications PLC
- Created motion tracker using OpenCV for 2016 TI Intern Design Challenge

VCLA Research Center, Undergraduate Researcher — July 2015 – Sept 2015

- Wrote Python program to generate 3D Maya models from CSV files and use models to perform real-time error checking against robot arm position
- IEEE ICRA 2016 conference paper contributor

ACTIVITIES & PROJECTS

Teaching Assistant at UCLA School of Engineering — Sept 2018 – Current
ENGR112 (Fall 2018), ENGR111 (Winter 2019)

- Assisted in preparing course materials, grading and assigning homeworks, proctoring exams, hosting discussion sections and office hours, and teaching review sessions.

UCLA IEEE Student Branch — July 2015 – May 2018
External Vice President (2016-2018), Treasurer (2015)

- Communicated with UCLA Electrical Engineering department and other engineering student clubs to host school-wide events, maintain corporate connections, secure funding, and shape the organization's future direction
- Managed organization finances and approved over $25k of purchases

Startup Fair LA (Bruin Startup Fair) — Aug 2015 – Dec 2016
Primary Organizer (2016), Sponsorship Lead (2015)

- Organized 2 bi-annual startup-focused career fairs each with over 35 participating companies and 3 corporate recruiting information sessions

EDUCATION

M.S. Computer Science, 2018 - 2019
UCLA | Artificial Intelligence | GPA: 4.0

B.S. Computer Science, 2014 - 2018
UCLA | GPA: 3.76

SKILLS

PROGRAMMING LANGUAGES

- Python
- C / C++
- BASH
- Javascript
- Lisp
- R

TECHNOLOGIES & FRAMEWORKS

- Keras
- Lasagne
- Theano
- Tensorflow
- Scikit-Learn
- Docker
- Jenkins
- Apache Kafka
- Apache Aurora
- Redis
- React
- Flask

PUBLICATIONS

- Robot Learning with a Spatial, Temporal, and Causal And-Or Graph
  DOI:10.1109/ICRA.2016.7487364

HONORS

- Upsilon Pi Epsilon
  Computer Science Honor Society

COURSEWORK

GRADUATE LEVEL

- Computer Vision
- Computational Imaging
- Cognitive Artificial Intelligence
- Large Scale Data Mining
- Machine Learning Algorithms
- Neural Networks & Deep Learning
- Neural Signal Processing

UNDERGRADUATE LEVEL

- Algorithm Design & Complexity
- Artificial Intelligence
- Computability Theory
- Computational Genetics
- Computational Medical Imaging
- Computer Networking
- Database Systems
- Programming Languages
- Intro to Discrete Mathematics
- Intro to Probability Theory