FELIX SU

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Machine Learning Scientist / Practical Programming Ninja

EDUCATION

University of California, Berkeley Aug 2014 - May 2018

B.A. Computer Science

Awards & Certificates

Cert. of Entrepreneurship & Technology (2016) , Wells Fargo Protothon Finalist (2014), CAA Leadership Award (2014)

Relevant Coursework (* = intended class)

CS294 - Deep RL*	STAT 133 - Data Computing
CS189 - Machine Learning*	CS61A/B/C - Interpreting Programs,
EECS106A - Intro to Robotics*	Data Structures, Computer Arch.
CS188 - Artificial Intelligence	CS70 - Discrete Math / Probability
CS186 - Database Systems	EE16A - Digital Systems
CS161 - Computer Security	MATH 54 - Linear Algebra

SKILLS

Languages

Python, Java, C, C++, R, JavaScript, jQuery, HTML/CSS, Bash

Frameworks

TensorFlow, MXNet, Kaldi, NumPy, Meteor, MEAN, Angular 2, AngularJS, ReactJS, Blaze, Express, NodeJS, Ionic

Services/API

V-Rep, MongoDB, Firebase, Heroku, SendGrid, Git, Google Cloud, Postmates, Stripe, Ace, Filestack

Design

Illustrator, After Effects, Premier Pro, Experience Design, Sketch3, Photoshop, InDesign

WORK EXPERIENCE

Amazon
Seattle, WA
May 2017 - Aug 2017

Software Development Engineer Intern - Robotics

- Implemented a Natural Evolution Strategy algorithm to train neural networks with parameter perturbations
- Compared performance against Trust Region Policy Optimization in a robotic simulator environment
- Built a crash resistant training system using file backups to guarantee a setback of only 1 training iteration
- Parallelized training on a distributed EC2 system by broadcasting algorithm rewards using MPI

AKALA
Los Angeles, CA
Sep 2015 - Dec 2016

Full Stack Software Engineer Intern

- Developed a mobile app for virtual college counseling using Meteor as a full stack framework
- Reduced effects of server calls on UI/UX by using localStorage as a middleman cache

Beeyond Inc.
San Francisco, CA
Jun 2015 - Sep 2015

Software Engineer Intern - Mobile Applications

- Developed an API and Angular MVC structure for a mobile app linked to a Firebase database.
- Implemented authentication flow with database checks and front-end alerts for faulty inputs

LEADERSHIP AND ORGANIZATIONS

Founder / President / Project Leader | Launchpad Jan 2017 - Present

- Founded a 21-member machine learning organization to help students develop practical projects primarily involving sequential data.
- Worked with AmazonAI and AWS teams to train LSTM models on multiple speech corpora using MXNet and Deep Learning AMI.
- Deployed Stella, a hands-free web browsing extension that uses AWS Lambda to access our trained model hosted on AWS S3.
- Taught workshops on topics such as full stack development, recurrent neural networks, industry recruiting, Kaldi, and MXNet.

CS61A/CS61B Lab Assistant | UC Berkeley EECS Department Aug 2015 - Dec 2015

- Hosted lab hours to help students with Python coding concepts regarding inheritance, abstraction, and environments
- Taught best practices with Java and how to minimize runtime using sorting algorithms and complex data structures

PROJECTS

Stella - github.com/callaunchpad/Stella **Launchpad Project** | May 2017

- Built an artificially intelligent chrome extension using speech recognition APIs to browse the web with voice commands
- Working to create our own API by training LSTM and CTC networks on EC2 using the AMI, Librispeech, and Modality corpora.

Hackerpad - github.com/felixs8696/hackercred **Personal Project** | Dec 2016

- Developed a collaborative coding environment with chat, video, and file sharing capabilities using ReactJS and MongoDB
- Implemented server-less peer to peer connections in an ace editor and chat interface using WebRTC and Socket.io

Hack In - www.hackin.io **European Innovation Academy** | Aug 2016

- Used Meteor and MongoDB to develop a customized technical assessment platform to vet developers and freelancers
- Working on remote server compilers to rank applicants using automated computational and practical code evaluations