FELIX SU

Practical Programming Ninja

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EDUCATION

University of California, Berkeley   Sep 2014 - May 2018

B.A. Computer Science

Awards

Wells Fargo Protothon Finalist (2014), CAA Leadership Award (2014)

Relevant Coursework

CS188 - Artificial Intelligence	CS61A - Interpreting Programs
CS186 - Database Systems	CS61B - Data Structures
CS161 - Computer Security	CS61C - Computer Architecture
EE16A - Digital Systems	CS70 - Discrete Math / Probability
STAT 133 - Data Computing	MATH 54 - Linear Algebra

SKILLS

Languages

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

Frameworks

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

Services/API

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 2015 - Aug 2016

Software Development Engineer Intern

- Worked within the Robotics and Automation Team as a Machine Learning and Computer Vision intern.
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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.
- Created a Mocha-Chai framework with Protractor.js for E2E testing and Karma for unit testing
- Implemented authentication flow with database checks and front-end alerts for faulty inputs

PROJECTS

Stella - github.com/callaunchpad/Stella   **Launchpad Project** | Present

- 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

CALERT - calert-web.herokuapp.com   **Personal Project** | Apr 2016

- Used the Google Maps API to mark incidents on a desktop map by crowdsourcing campus PSAs and police reports
- Developed an app that turns on GPS tracking and alerts officials and friends of emergencies with a single button press

LEADERSHIP AND ORGANIZATIONS

Founder / President / Speech Recognition 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