Yangrui (Clark) Fan

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EDUCATION

University of California, Berkeley December 2017

Bachelor of Science in Electrical Engineering and Computer Sciences

Courses Included:

- Computer Science: Artificial Intelligence, Computer Algorithms, Data Structure, Database Systems, Machine Learning, Machine Structure, Networking, Operating Systems, Software Engineering
- Electrical Engineering: Designing Information Devices and Systems, Feedback Control Systems, Signal and Systems

SKILLS

Technical: Python, Java, C, AngularJS, Angular, JavaScript, TypeScript, Ruby on Rails, HTML, CSS, SQL, MongoDB, Git, Mulesoft

Machine Learning: Caffe, Chainer, TensorFlow

General: LaTeX, Tableau, Mac/Linux/Windows operating system and commands

WORK EXPERIENCES

Software Engineer, *N.F. Smith & Associates, L.P., Houston, Texas* April 2018 - Present

- Developed front end with AngularJS and API handler with Java for internal tools based on demands from sales representative for better marketing results
- Set up Tableau Servers and used Tableau to visualize and analyze data for internal use
- Wrote SQL query for Oracle DB to get data ready for analysis
- Ran Scrapy on EC2 to crawl data for electronic component parts and keep track of rapid price and stock changes

Big Data Analysis Internship, *Sumitomo Electric Industries, Ltd., Osaka, Japan* May 2017 - August 2017

- Built a model with the techniques from multiple papers (Dropout, Data Augmentation, Multicolumn/Ensemble Learning)
- Implemented the model with TensorFlow, Chainer, Caffe using Python API to classify the sample dataset
- Evaluated the performance with different Deep Learning tools in terms of test accuracy, training time and predicting time
- Suggested the company to choose the more efficient Deep Learning tool for future designated data

Data Engineer Internship, *Turing Video, San Mateo, California* April 2017 - May 2017

- Implemented a web crawler using Python to correctly and efficiently select all available public cameras from `www.insecam.org`
- Used OpenCV to filter out the web cameras with no moving humans or objects
- Created Automated script to grab raw training data on real time
- Labeled suspicious events to prepare for the training set

PROJECTS

Cal Alumni Network App (Calumni), *University of California, Berkeley, California* October 2017 - December 2017

- Created a SaaS application Calumni using Ruby on Rails from scratch
- Practiced Agile software development, BDD along with TDD, Continuous Integration, and MVC pattern
- Provided a network to reach out to alumni for resume & interview help, referrals, questions about their companies, and advice.
- Developed main features:
  - Adopted Google OAuth to support login and logout
  - Introduced people database to support updating profiles and ability to become a mentor (mentee by default)
  - Selected ElasticSearch instead writing own SQL query to support search by name/company, and Ajax for typeahead
  - Launched message and conversation database to support communicating with others
  - Used HTML Form along with some validation check to support requesting/responding to help

RESPONSIBILITIES AND EXTRACURRICULAR ACTIVITIES

Undergraduate Student Instructor (TA), *University of California, Berkeley, California* August 2016 - December 2016

- Planed, ran group review sessions, and made worksheets designed to help students mastering the material for Designing Information Devices and Systems (EE16A)
- Covered topics: circuit design, signal processing, control, and systems in an application-driven context