

Yangrui (Clark) Fan

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EDUCATION

University of Illinois at Urbana-Champaign
Master of Computer Science

August 2021

University of California, Berkeley
Bachelor of Science in Electrical Engineering and Computer Sciences

December 2017

Courses Included:

Artificial Intelligence, Computer Algorithms, Data Cleaning, Data Mining, Data Structure, Data Visualization, Database Systems, Deep Learning for Healthcare, Distributed Systems, Feedback Control Systems, Machine Learning, Machine Structure, Networking, Operating Systems, Practical Statistical Learning, Signal and Systems Software Engineering,

SKILLS

Technical: Python, Java, C, AngularJS, Angular 2+, 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/Angular 9 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

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

- Planned, 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