

Ryan Liu

Pleasanton, CA | rliu4439@berkeley.edu | (925)-399-8248

Skills

Proficient in Python, Java, Spark. Familiar with Go, C, SQL, Docker, Linux, Git, Tensorflow, AWS

Education

University of California, Berkeley

Expected Dec. 2019

*Electrical Engineering and Computer Science BS **Minor:** Data Science*

GPA: 3.85/4.0 | *HKN (EECS Honor Society) Member | IEEE Member*

Coursework: *Corporate Finance, Investments, Machine Learning, Operating Systems, Computer Architecture, Databases, Deep Learning, Algorithms, Computer Security, Data Structures, Artificial Intelligence, Data Science*

Experience

Databricks - Data Science Intern

Jan. 2019-Aug. 2019

- *Designed a LSTM-based churn prediction system with automated alerting for 100s of accounts, potentially increasing net revenue retention by 3-5%*
- *Partnered with marketing to analyze the impact of customer training on product usage*

Kaiser Permanente - Software Engineering Intern

June 2018-Dec. 2018

- *Designed and implemented a scalable NLP and analytics API utilizing distributed systems using Spark in an Agile environment*
- *Partnered with Data and Infrastructure Teams to develop a document search engine and data pipeline with a 50-80x speedup over initial implementation*
- *Designed a patentable phone auto-authentication system potentially boosting profit by 50-60K per year*
- *Presented analysis and solutions to CTO/CDO and Infrastructure team*

Infinera - Software Engineering Intern

June 2017-Aug. 2017

- *Created a real time web dashboard for interactive data visualization and switch configuration with Javascript and Python using network data from several RESTful switches*
- *Built an LSTM in TensorFlow to predict bandwidth requirements for equipment purchase recommendations*

Infinera - Firmware Engineering Intern

June 2016-Aug. 2016

- *Developed a Linux CLI utility in C to retrieve and parse ASIC/FPGA parameters locally and from a server in a production environment*
- *Collaborated with firmware team to automate testing and script creation*

Projects

Exercise Pose Detector – Python, PyTorch, Docker

- *Developed a CNN model in PyTorch to determine exercise based on pose with 93% accuracy*
- *Deployed a REST API endpoint and website for predictions using Docker and Flask*

Secure File Store – Go, Computer Security

- *Built a high-performance, cryptographically secure cloud storage system in Go with sharing and access controls, meeting confidentiality and integrity requirements*

Weather Wear – Java, Android

- *Developed an Android App combining data from OpenWeatherMap API calls, past outfits and user feedback to provide personalized clothing suggestions*
- *Utilized the GCP Vision API to detect articles of clothing to determine outfit*

Honors

Eta Kappa Nu (HKN) Honor Society Member (Top ¼ of EECS Juniors)