

MYRON LIU

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EDUCATION

University of California, Berkeley

August 2015 - December 2019

B.A. in Computer Science (Major GPA: 3.71, Cumulative GPA: 3.45)

B.A. in Statistics

B.S. in Chemical Engineering

Relevant Coursework

Algorithms, Data Structures, Operating Systems, Computer Security, Databases, Artificial Intelligence, Machine Learning, Deep Reinforcement Learning

EXPERIENCE

Recents.cc

May 2019 - October 2019

Software Engineer

Berkeley, CA

- Developed a React Native mobile application deployed on iOS app store allowing users to share links via forwarding.
- Built RESTful backend using Node.js and a Postgres database for user and link data storage.
- Used forwarding metrics to develop a naive PageRank algorithm for sorting user posts.
- **Skills:** React, React Native, Node.js, Postgres, SQL, Algorithm design

Arista Networks

May 2019 - August 2019

Software Engineer, Intern

San Francisco, CA

- Built customer onboarding API with new authorization and permissions schema in Go and React-Redux and automated the process with Ansible tasks and CRON jobs.
- Managed Kubernetes deployments and secrets for customer apps Docker files.
- Benchmarked performance of new authorization schema with batching and caching modification for database notifications and achieved a 27% speedup.
- **Skills:** Go, Javascript, React.js, Kubernetes, Docker, Git, Gerrit, Jenkins, Ansible, cron, Redux

Nucleai

January 2018 - August 2018

Software Engineer

Berkeley, CA

- Developed a network for sharing encrypted medical data for machine learning.
- Responsible for data visualization, data pipeline architecture and database design for housing large medical data sets.
- Built a Python database API on top of an Elasticsearch cluster hosted on AWS.
- **Skills:** AWS cluster management, MySQL, Elasticsearch, PyTorch, Python

PROJECTS

Secure File Sharing

December 2018

- Designed a secure file-sharing backend interface using cryptographic algorithms in Python.
- Benchmark security and time tradeoffs using Python timeit and related benchmarking utilities.
- Implemented a Merkel tree-based efficient file storage update protocol.
- **Skills:** Python, SHA and related cryptographic hashes and protocols, Benchmarking

RANSAC Image Stitching

May 2018

- Used Harris Corner detection with Adaptive Non-maximal Suppression (ANMS) to limit search space.
- Implemented OpenCV functions for auto-stitching and mosaicing images with the RANSAC method.
- Image blending using homographic morph with Gaussian blur and edge detectors.
- **Skills:** OpenCV, Video and image manipulation, Edge detection, Computer Vision

TECHNICAL STRENGTHS

Computer Languages Frameworks

Go, Python, Javascript, Java, C++, C, SQL
React.js, React Native, Kubernetes, Docker, Ansible, Pandas, PyTorch