

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

PROJECTS

E-commerce Website

December 2019 - Present

- Built an e-commerce website from scratch with React frontend, Node backend and MongoDB database.
- Integrated Square payments API and SSL certificates for secure transactions.
- **Skills:** Javascript, CSS, HTML, React.js, Node.js, MongoDB, Payments

Mad Minute

December 2019

- Built an educational mathematics game and website for K-1 to K-6 students.
- Implemented RESTful API calls with a Node backend and Express and a MySQL database.
- **Skills:** Javascript, CSS, HTML, Node.js, MySQL, Game Design, RESTful applications

RL Platformer

November 2019

- Created an openAI gym environment for deep reinforcement learning on sparse reward platformer games.
- Trained models with Q-Learning, Double DQN, and EX-2 exploration algorithms.
- **Skills:** Python, TensorFlow, Deep Reinforcement Learning, API implementation

Secure File Sharing

December 2018

- Designed a secure low-level file-sharing backend interface using cryptographic algorithms in Python.
- Benchmark security and time tradeoffs using Python timeit and related benchmarking utilities.
- **Skills:** Python, SHA and related cryptographic hashes and protocols, Benchmarking, Merkel Trees

TECHNICAL STRENGTHS

Computer Languages Frameworks

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