Andrew Chan

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.A. Computer Science
Class of 2019
Overall GPA: 3.6
Major GPA: 3.7

LINKS

Github: theandrewchan
LinkedIn: andrew-k-chan

COURSEWORK

COMPUTER SCIENCE

Data Structures
Discrete Math & Probability
(Current Course Staff)
Random Processes
Computer Architecture
Algorithm Theory
Machine Learning

OTHER

Linear Algebra
Differential Equations
Mathematical Physics
Thermodynamics & Electromagnetism
(Honors Course)
Multivariate Calculus

SKILLS

PROGRAMMING LANGUAGES

Java • JavaScript • Python • C • C++ •
Assembly • SQL • LaTeX

FRAMEWORKS AND LIBRARIES

React.js/Redux • Django • Node.js
(Express.js) • OpenCV

EXPERIENCE

WEBROOT | Software Engineer Intern | Threat Intelligence
June 2017 – Aug 2017 | San Diego, CA
- Infrastructure automation and load testing for threat intelligence information retrieval system.
- Constructed scalable authentication scheme for threat intelligence API, improving response times by an order of magnitude at high concurrency.

HERE | Research Engineer Intern | Autonomous Driving Research
May 2016 – Aug 2016 | Berkeley, CA
- Constructed visualization pipeline of millions of GPS data points, aiding development of algorithms to detect map changes on a global scale.
- Created Google StreetView clone for my research team for crowdsourced labeling of panoramic imagery.

CODEBASE AT BERKELEY | Project Manager
Feb 2017 – Present | Berkeley, CA
- Previously lead developer on the team that built the consumer mobile app for Sutro, a smart water monitoring device manufacturer.
- Project manager for the mentored project, which teaches junior members fundamentals of software engineering.

FIRST ROBOTICS COMPETITION | Chief Programmer
Oct 2014 – June 2015
- Constructed robot control program with both autonomous and manual modes to operate a four-wheeled volleyball playing robot.

PROJECTS

OPEN SOURCE CONTRIBUTIONS | react-chartjs-2 (⋆ 896 stars)
github.com/jerairrest/react-chartjs-2
Added support for inline (per-chart) plugins as per the latest release of ChartJS. Merged into latest release.

TWEET RUNNER | 3rd Place Winner, Berkeley CSUA Hackathon
github.com/theandrewchan/tweet-runner
Created a web game in which enemies spawn in real time according to the global Twitter feed.

FARMR | HackDavis 2017
github.com/theandrewchan/farmr
Created a React Native app for iOS and Android where farmers can take a picture of their crops to diagnose crop conditions and diseases. Photos are run through an image classifier trained on an open dataset of 50k plant images labeled by condition.

SELECT OTHER PROJECTS

Regular Expression Parser	github.com/theandrewchan/regex
Full Text Search Engine	github.com/theandrewchan/search-engine-day-1
SoundCloud Webapp Clone	github.com/theandrewchan/SoundFoundry
Nerf Turret	github.com/brianlevis/nerf-iron-dome