

Victor Chan

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EDUCATION

University of California, Berkeley

Graduating 2019

GPA: 3.75 / 4.0

B.S. Electrical Engineering and Computer Science

Regents' and Chancellors' Scholar, National Merit Scholar, Cal Alumni Association Leadership Scholar

Courses: Data Structures (CS61B), Machine Structures (CS61C), Security (CS161), Operating Systems (CS162), Internet Architecture (CS168), Algorithms (CS170), Databases (CS186), Artificial Intelligence (CS188), Machine Learning (CS189)

Dougherty Valley High School

Aug 2012 – June 2016

GPA: 4.83, SAT: 2400

EXPERIENCE

Amazon.com

Seattle, WA

Software Development Intern

May 2018 – August 2018

- Designed and developed internal web app for non-technical PMs to update Contact Us g2s2 tables
- Frontend: Vue.js, Vuex, webpack, Bootstrap-Vue, Less; Created WYSIWYG interface to replace manual .csv file writing
- Backend: Java, Spring, Horizonte, Amazon UI; Wrote and exposed 2 backend APIs and tested with Mockito and JUnit

Intertrust Technologies Corporation

Sunnyvale, CA

Data Science Intern

May 2017 – August 2017

- Optimized client request handling and resource allocation by developing ARIMA model to forecast future request counts
- Performed PCA dimensionality reduction (scikit-learn) on .csv dataset to reduce file size and computation time by over 34x
- Clustered, using k-means and OPTICS, 6-D unlabeled sensor data for 160 wind turbines (pandas, pyclustering, sklearn)
- Assigned labels to 6 main clusters with LSTM; used labels to predict windmill functionality from our client's sensor output

Data Science Society at Berkeley

Berkeley, CA

Career Development Officer, Case Study Data Analyst

January 2017 – December 2017

- Partner with FairVote to isolate trends in Bay Area election data to analyze effectiveness of Instant Runoff Voting
- Program election modeling software (Python/R) based on San Francisco elections to compare various voting paradigms
- Network with professionals to organize resume/interview workshops and annual Data Science Forum (700 attendees)

Launchpad

Berkeley, CA

Quadcopter Machine Learning Project

August 2017 – December 2017

- Develop machine learning software for quadcopters to travel from one point to another while avoiding obstacles
- Implement ROS Kinetic drone simulations on Gazebo Sim, with OpenCV image processing for stereo camera input

Discrete Mathematics and Probability (CS70)

Berkeley, CA

Undergraduate Student Instructor

January 2017 – December 2017

- Devise problem sets on topics such as polynomial interpolation and graph theory for 800 CS70 students
 - Hold office hours and review sections to guide students through questions about homework, exams, and course material
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SELECTED INDEPENDENT PROJECTS

Monument Crisis Center: Volunteer Mobile Application Developer

During my senior year of high school, I volunteered to develop a [free open source interface](#) for MCC's clients, volunteers, and donors to discover news and register for classes and events. I coded the app in Lua to pull information from an RSS feed on MCC's website. By programming the app, I gained experience in mobile development across multiple platforms.

Personal Projects

- *DMS*: Safety mobile app to email emergency contacts if preset alarms are triggered (Expos, Sparkpost API, Node.js)
 - *YouTube Controls*: Chrome Extension to control video speed and skipping, developed for lecture webcasts (jQuery)
 - *Twitter Sentiment*: Analyze tone of tweets from Twitter Stream API with IBM Watson to plot US emotional distribution
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SKILLS & INTERESTS

- **Programming Languages (advanced):** Java, Python, C, C++, Lua, R, Spark, SQL, JS, jQuery, NumPy, Pandas, sklearn
- **Additional Skills:** Teaching, Git, CAD, AWS, Atlassian Tools, Agile, Linux, Robotics, Cybersecurity, Machine Learning
- **Languages (fluent):** English, Mandarin, Cantonese
- **Organizations:** HKN (EECS Honor Society), Cal Parkour, A2F Church, DISCiples IM Ultimate Frisbee Team
- **Interests:** Parkour/Freerunning, Freestyle Rap, Chess, Rubik's Cubes, Distance Running, Piano
I love using my 11x11 Rubik's cube to create images for special occasions: tinyurl.com/rubikscubepictures