

Victor Chan

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EDUCATION

University of California, Berkeley

Graduating 2020

GPA: 3.87 / 4.0

B.S. Electrical Engineering and Computer Science

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

Courses: Algorithms (CS170), Internet Architecture (CS168), Machine Structures (CS61C), Randomness/Probability (EE126);
Computer Programs, Discrete Mathematics, Information Systems, Linear Algebra/Differential Equations, Data Structures

Dougherty Valley High School

Aug 2012 – June 2016

GPA: 4.83, SAT: 2400

EXPERIENCE

Intertrust Technologies Corporation

Sunnyvale, CA

Data Science Intern

May 2017 – present

- 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 unlabeled sensor data with k-means and compared with neural network labels to predict windmill functionality

Discrete Mathematics and Probability (CS70)

Berkeley, CA

Reader

January 2017 – present

- Devise problem sets on topics such as polynomial interpolation and graph theory for 800 CS70 students
- Hold office hours to guide ten students a week through questions about homework and course material
- Organize, host, and tutor at cumulative review sections before midterms and finals to prepare students for exams

MakerFunc Innovation Camp

Suzhou, China

Robotics Instructor

July 2017 – August 2017

- Developed Robotics Sensors and Programming curriculum for high school students at a summer tech camp in Suzhou
- Led two weeks of classes and workshops, during which 10 students built and programmed complex drones and VEX robots

Data Science Society at Berkeley

Berkeley, CA

Case Study Data Analyst

January 2017 – May 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
- Develop interactive website (HTML, jQuery) to clearly illustrate results to the public

Knodemy Inc.

Livermore, CA

IT Intern

June 2015 – Aug 2015

- Formulated curriculum and taught courses for Robotics, Web Development (HTML, JS, CSS), and Java
 - Updated Knodemy website per requests of the design team
 - Coordinated KnoCode Hackathon for 50+ high school students: acquired sponsorships, recruited judging panel, PR
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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

- *YouTube Controls*: Chrome Extension for custom control of video speed and skipping, developed for lecture webcasts
 - *Two-Time Pad Cracker*: Determine secret key of stream cipher from multiple messages encoded with the key
 - *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:** Git, CAD, AWS, Atlassian Tools, Agile, Linux, Robotics, Cybersecurity, Big Data, Machine Learning
- **Languages (fluent):** English, Mandarin, Cantonese
- **Organizations:** Cal Parkour (TA), Acts 2 Fellowship Church, PC Blue IM Basketball 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