

# William Wong

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## Education

8.2017 – Present: *University of California, Berkeley* Computer Science Major

**Relevant courses:** Machine Learning, Data Structures, Information Devices and Systems, Computer Programs, Linear Algebra, Calculus

8.2013 – 6.2017: *Saint Francis High School*

Student Council (2015-2017), High Honor Roll (2014-2017), Varsity Golf (2014-2017)

## Skills

**Languages:** Proficient in Python, Java, JavaScript, Node.js, HTML, CSS; Experienced with NumPy, Pandas, Matplotlib, SQL, MongoDB, Solidity, Web3.js, React Native, Swift, Ruby on Rails.

**Tools:** Visual Studio Code, IntelliJ, PyCharm, XCode, Postman, Git, bash, Heroku, Firebase, Postico, Photoshop, MacOS, Windows.

Native English speaker with Mandarin and Spanish working fluency.

## Work Experience

10.2018 – Present: *UC Berkeley AUTOLAB, Berkeley, CA*

### Undergraduate Researcher

- Under Professor Ken Goldberg, developed a real time JavaScript visualization of seismic data from the Hayward Fault in one week. Live version can be found here: <http://goldberg.berkeley.edu/art/Bloom>.
- Part of the graduate and undergraduate team developing and improving the Dex-Net robot under the supervision of Ken Goldberg.

5.2018 – Present: *Vectorspace AI, San Francisco, CA*

### Blockchain Staff Engineer

- Developed Ethereum smart contracts for subscription platform and a cryptocurrency listed as VAI on decentralized exchange IDEX.
- Created a Python Reinforcement Machine Learning Model that rebalances smart baskets to optimize returns over 100%.
- Used SVM, LDA, K-Means and t-SNE for Python ML Model to create cryptocurrency ETFs based on hidden relationships.
- Wrote JavaScript and Node.js to call REST APIs for multiple data mining projects and to create a real time Apache console log.

6.2018 – 8.2018: *Proteus Digital Health, Redwood City, CA*

### Software Engineering Intern

- Integrated Atlassian Confluence with EtQ Reliance using REST APIs in Java and JavaScript. Automated FDA regulated process of creating and reviewing documents in Reliance database for all company members. Reduced workflows by 66%.
- Developed Java REST framework to handle secure communication with EtQ Reliance Apache server in less than a second.
- Created a Java Confluence plugin to automate generation of redline Microsoft Word documents, using docx4j library.
- Developed Python scripts with Requests library to call EtQ Reliance REST APIs to determine viability of project.

7.2017 – 8.2017: *SDxCentral, Santa Clara, CA*

#### **Data Analysis Intern**

- Created the company's first user data backend by uploading over 60,000 lines of data from csv files onto a Heroku PostgreSQL database with Python.
- Established a data platform for company to use to tailor site experience to specific users, countries and organizations, resulting in increased profitability.
- Developed data visualization website with Full Stack Ruby on Rails in 3 weeks to serve as a more versatile alternative to company's Google Analytics backed portal.
- Utilized PostgreSQL to generate multiple queries connecting website with database - all within 2 seconds.
- Self-initiated 7 data analysis projects to maximize consumer experience - added queries to database based on user, report, and region.

6.2017: *Ambisafe, San Francisco, CA*

#### **Junior Software Engineer**

- Built a CLI application in 2 weeks with Web3.js and Node.js to automate sending of Ethereum ERC-20 tokens to multiple investors at once.
- Upgraded ICO token sale mobile apps with React Native and Git by fixing critical bugs and adding new features.
- Became proficient with Web3.js in less than 3 weeks, and used it to program a token sender.
- Supported a senior engineer to help a startup in its ICO.

6.2017: *Carleton College, Northfield, MN*

#### **Computer Science Research Intern**

- Conducted gap analysis/logistical regression study for endangered species conservation in Minnesota.
- Used ArcGIS and Python to generate models for geospatial analysis research.
- Located Blanding's turtle habitats in the Twin City Metro.

6.2017: *Cafetalk, San Francisco, CA*

#### **Web Developer Intern**

- Revamped all the help pages using HTML and CSS in 2 months.
- Established more than 10 advertising partnerships with internet language bloggers.
- Posted job openings for tutor positions and contacted over 200 applicants.

1.2014 – 11.2014: *Cooliris, Palo Alto / San Francisco, CA*

#### **Software Engineering Intern**

- Developed 5 Objective-C iOS apps including a Firebase chat application to research features for Cooliris' production apps.
- Conducted hundreds of quality control tests of company's mobile apps and compiled daily lists of UI and feature suggestions.

## Selected Independent Projects

**Tabt:** Published an iOS Swift app to outsource time management to friends: [appstore.com/Tabt](https://appstore.com/Tabt). Has achieved 2400+ downloads.

**World Crypto Economic Forum 2018:** Built a distributed investment platform for minimal risk crowdsourced housing loans. Deployed on Ethereum test net. Handled smart contract development and blockchain integration with front end using Solidity and Web3.js.

**Cal Hacks 2017:** Developed a blockchain inventory app to protect small businesses from fraud. Used Firebase and Ethereum test net for backend and React Native for front end.

**HS Hacks 2017:** Created a website platform using JavaScript, HTML and CSS for crowdsourcing local travel guides. Won Best Beginner Hack.

**Cyclz:** Created a streamlined dorm laundry service website: <https://w07wong.github.io/Cyclz>. Rapidly designed and created website using HTML and Google Calendar. Service adopted by entire college dorm building (250+ residents).

**Los Altos Hacks 2017:** Created a sign language-to-speech translator using Leap Motion hand gesture recognition. Developed an Amazon Alexa skill deployed to AWS and a Heroku backend service, integrated using Node.js.