

# Alexander Pan

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## CONTACT INFORMATION

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## EDUCATION

**University of California, Berkeley**, Berkeley, California USA

B.A. Computer Science; Expected May 2019

- GPA: 3.84/4.00
- Relevant Coursework: Data Structures, Efficient Algorithms, Computer Architecture, Database Systems, Machine Learning, Artificial Intelligence, Computer Security, Discrete Math & Probability Theory, Linear Algebra, Computational Photography

## EXPERIENCE

**Valor Water Analytics**, San Francisco, California USA

*Software Engineering Intern*

**June, 2017 - August, 2017**

Optimized performance speed of an algorithm identifying water meter under-registration, reducing its runtime by 92% and allowing for scalability on larger data sets. Improved algorithm precision by implementing anomaly detection logic on time series data. Wrote unit tests and reduced external dependencies to ensure production-level code quality.

**Innovative Design**, Berkeley, California USA

*Web Developer*

**January, 2017 - Present**

Worked with a team of 4 to create websites for on-campus organizations as part of a student-led creative agency. Used React as a user interface framework to build and design a responsive, updatable website for the Cal Lightweight Crew team.

## PROJECTS

*findfrisbee.com* (Web Application)

Developed a unified platform for organizing Ultimate Frisbee events in order to grow the sport and provide convenience. Built with Python Flask and deployed on Heroku. Includes a user and event SQL database and a time-sorted display with attendance/hosting options.

*Typelearn* (PC Game)

Built a terminal-based productivity game designed to improve typing speed while staying up-to-date with current events. Generates text using the Reddit API to pull interesting, relevant news articles.

*alexpan.me* (Personal Website)

Created a website using HTML, CSS, and Javascript to showcase my coding projects and design portfolio. Incorporates universal visual design principles and custom vectors from Adobe Illustrator.

*Generative Python Art*

Used the Nodebox library to generate unique, randomized desktop backgrounds with Python code.

## SKILLS

Computer Languages

- Proficient in Python, SQL, Java, C; Familiar with HTML & CSS, LaTeX

Programming Tools

- Git, Tableau, Flask, React, Amazon Redshift, Bootstrap

Other

- Proficient in Adobe Illustrator; Familiar with Adobe Photoshop; Fluent in Chinese

## INTERESTS AND ACTIVITIES

*Cal Men's Ultimate Frisbee Team (5th at Regionals)*

**August, 2015 - Present**

*Bay Area Mixed Youth Ultimate Frisbee Team (2nd at Nationals)*

**June, 2016 - August, 2016**

*San Francisco Dogfish Professional Ultimate Frisbee*

**February, 2016 - June, 2016**