Alexander Pan

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. Calculates WPM and 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**