Alexander Pan

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EDUCATION

University of California, Berkeley, Berkeley, California USA

B.A. Computer Science; Expected May 2019

- GPA: 3.81/4.00
- Relevant Coursework: Data Structures, Efficient Algorithms, Computer Architecture, Database Systems, Artificial Intelligence, Structure/Interpretation of Computer Programs, Discrete Math & Probability Theory, Linear Algebra & Differential Equations, Information Devices

Novi High School, Novi, Michigan USA

Graduated May 2015

- GPA: 4.00/4.00 (Summa Cum Laude)
- Class Rank: Top 10 (class size of 491)
- National Merit Scholarship Finalist, National AP Scholar

PROJECTS

Personal Website (alexpan.me)
Created a website from scratch using HTML, CSS, and Javascript, with custom backgrounds and buttons from Adobe Illustrator. Showcases my coding projects, design portfolio, and contact info.

Generative Python Art
Used the Nodebox Mac Application to generate randomized visual displays from Python code. Draws from the external Nodebox libraries to create computerized renditions of bokeh pictures and fire.

ACADEMIC PROJECTS

University of California, Berkeley, Berkeley, California USA

CPU
Created a 32-bit 2-cycle pipelined processor, using circuits in Logism. Implemented instructions from the MIPS ISA to produce machine code outputs.

Text Editor
Created a text editor using the external JavaFX library. Features included cursor and mouse input, word wrapping, open/save, undo/redo, and window re-sizing. $O(n)$ time complexity for rendering.

EXPERIENCE

Innovative Design, Berkeley, California USA

Gold Tier (Graphic Design)   **September, 2016 - Present**
Created graphic design illustrations as part of Innovative Design, a student-led creative agency. Worked personally with clients to develop logos and brand identity for on-campus organizations, such as the Educational Opportunity Program and the American Diabetes Association at Berkeley.

SKILLS

Computer Languages
- Proficient in Python, Java, C, HTML & CSS, MIPS; Familiar with Javascript, SQL

Programming Tools
- Git, Apache Spark, OpenMP, Intel SSE

Other
- Proficient in Adobe Illustrator; Familiar with Adobe Photoshop & Muse; Fluent in Chinese

INTERESTS AND ACTIVITIES

Cal Men's Ultimate Frisbee Team (UGMO, 5th at Regionals)	**August, 2015 - Present**
Bay Area Mixed Ultimate Frisbee Team (YCC, 2nd at Nationals)	**June, 2016 - August, 2016**
San Francisco Dogfish Professional Ultimate Frisbee	**February, 2016 - June, 2016**