Steven Lu

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Education	**University of California, Berkeley** (GPA: 3.42)	2015 - 2019
	B.A. Computer Science (Major GPA: 3.50)	

Coursework

CS61A: Structure and Interpretation of Programs	CS97: Field Study
CS70: Discrete Mathematics and Probability	Math 53: Multivariable Calc.
CS170: Efficient Algo. and Intractable Programs	CS61B: Data Structures
Math 54: Linear Algebra and Diff. Equations	CS61C: Machine Structures

Languages

Proficient	*Knowledgable*
Java	HTML/CSS
C	Javascript
Python	SQLite

Projects

TypeFaster (Java)   November 2016 - Present

- Developed Java application that calculates words per minute and finds major typing speed bottlenecks
- Designed String compression to store text samples in half the memory space

Encryption (Java)   December 2016 - Present

- Encrypts and decrypts messages with RSA using 1024 bit randomly generated keys
- Utilizes randomized padding to improve the security of the encryption

Bear Maps (Java)   April 2016

- Developed a zooming, navigatable map of Berkeley using raster graphics
- Calculates the shortest route between any two points using map data

Image Compression (Python)   December 2016

- Compresses and decompresses an image using DCT and Quantization
- Utilizes Spark API to execute compression on multiple images on parallel

Personal Website(HTML/CSS, JQuery)   December 2016 - present

- Coded and designed my personal website to exhibit my portfolio, which can be accessed at https://steven-lu-522.github.io/steven-lu.github.io/

Professional Experience

UC Berkeley Computer Science Department   January 2016 - Present
CS61B Lab Assistant

- Attend office hours and labs to guide students through assignments and projects
- Explain lecture concepts including algorithms, data structures, and efficiency

Digital Media Academy   June 2016 - July 2016
Teaching Assistant

- Taught basic coding in Java, Arduino, and Swift
- Helped the students design, code, and debug their applications