

# Zirui (Simon) Guo

Student Developer, Inventor, Engineer

I am a technologist and maker dedicated to improving the world through my creations. I had designed and built numerous products and prototypes (hardware and software) through internships, side projects, and hackathons (24 so far). Currently, I am looking for an internship in R&D, software engineering, or electronics engineering for summer 2020.

## Contact Information

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- Berkeley, CA



## EXPERIENCE

### UC Berkeley

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#### Undergraduate Research Apprenticeship (2019.9 - now)

Undergraduate Research Apprentice Program with Dr. Waqas Khalid under the Lawrence Berkeley Lab, learning and developing carbon nanotube biosensing system.

### HAX by SOSV

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#### Intern (2019.6 - 2019.8)

Design thinking, mechatronics system design, and rapid prototyping on most-needed research and development challenges of accelerator's portfolio companies. Due-diligence, interview, and technical deep-dive for evaluating startups; strategy for new venture recruitment and expansion.

### Interaxon

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#### R&D Intern (2018.6 - 2018.8)

Worked in research & development directly under the CTO. Conducted software architecture research and development (Python, C++), rapid prototyping, and user experience testing for Muse 2, the second generation of the Muse brain-sensing headband; the product was launched and won the CES 2019 Innovation Awards. Also created mind-controlled multi-media installations for events.

### Community Involvement

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Organized 3 large-scale hackathons (300 - 500 participants) in Toronto and Shanghai; in charge of program planning, sponsorship, and on-site operations.  
Weekly robotics instruction for underprivileged public middle-school students.



## EDUCATION

### University of California, Berkeley

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#### B.S., Electrical Engineering & Computer Sciences Major (2019.8 - 2023.6)

Regents' and Chancellor's Scholar (the most prestigious scholarship offered by UC Berkeley to entering undergraduate students), Engineering Scholars as Engaged Scholars, Educator at Blockchain at Berkeley, Undergraduate Research Apprentice Program, Association of Chinese Entrepreneurs at Berkeley, IEEE Member and Mentee

Relevant Courseworks (in progress): CS 61A Structure and Interpretation of Computer Programs, EECS 16A Designing Information Devices and Systems I

### Upper Canada College

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#### International Baccalaureate & Ontario Secondary School Diploma (2015.9 - 2019.6)

### Various Institutions

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Massachusetts Institute of Technology Launch Summer Program 2017  
Canadian Mathematical Society Math Camp (Invitational) 2016  
Johns Hopkins University Center for Talented Youth 2015: Mathematical Logic



## PROJECTS

Please visit my website ([simonguo.tech](http://simonguo.tech)) for my portfolio and awards.



## SKILLS

### Software

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Strong: Python, Java, HTML, CSS, React, JavaScript, Data Structures  
Knowledgeable: Node.js, PHP, C++, Git, R, React-Native, SQL, iOS & Android Development

### Tools

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Firebase, Amazon Web Services (S3, EC2, Route53, Lambda), Apache, Alexa Skills Kit, DigitalOcean, DialogFlow, Bootstrap, Markdown, Google Analytics, Unity

### Hardware

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Arduino, Raspberry Pi, 3D Printing, Fusion 360, SolidWorks, Circuit Design, Mechatronics System

### Languages

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Fluent: Mandarin, English. Knowledgeable: Spanish

### Other

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Project Management, UX Design and Research, Teaching, Video Editing, Sketch, Photoshop