

Zirui (Simon) Guo

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EDUCATION

University of California, Berkeley

Expected May 2023

B.S. Electrical Engineering & Computer Sciences, Bioengineering Minor | GPA: 3.9

- Involvement:** Regents' and Chancellor's Scholar (awarded to top 2% of incoming class), Blockchain at Berkeley, Undergraduate Research Apprenticeship, Association of Chinese Entrepreneurs, Kairos Society
- Coursework:** Data Structures, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems
- Teaching:** Blockchain for Developers (Instructor), Blockchain Fundamentals (Lecturer and TA), Industry Analysis for Engineering Leaders (TA)

SKILLS & INTERESTS

- Programming:** Python, Java, JavaScript, SQL, HTML/CSS; (less) C++, Solidity, PHP
- Technologies:** Node.js, React, iOS & Android Development, Unity, UNIX, GNU/Linux, Git
- Hardware:** Arduino, Raspberry Pi, 3D Printing, Fusion 360, SolidWorks, Circuit Design, Mechatronics System
- Languages:** English, Mandarin, Spanish (knowledgeable)
- Community:** Organized 3 hackathons of 300-500 participants; Competed or assisted in 28 hackathons

EXPERIENCE

HAX Accelerator, SOSV | No. 1 Accelerator Worldwide for Hardware Startups

[Shenzhen, China](#)

Mechatronics Engineering and Venture Capital Intern, directly supervised by firm partners

Jun 2019 - Aug 2019

- Investigated specifications and prototyped mechatronics implementations for the **camera system** of a computer-vision based farm weeding robot. It was revealed at TechCrunch Disrupt Hardware Battlefield 2019.
- Designed system functionalities and procedures for a portable rapid genetic sequencer.
- Negotiated with factories and suppliers on product and **manufacturing specifications**.
- Conducted **investment due-diligence** through technical deep-dives and interviews; Improved sourcing strategy.

Interaxon | Company behind Muse, the Most Popular Consumer Brain-Computer Interface

[Toronto, Canada](#)

Software Engineering Intern, Research and Development, directly supervised by the CTO

Jun 2018 - Aug 2018

- Built **software architecture (Python, C++)** that composes audio soundscapes using realtime biometric data.
- Validated architectural and soundscape design through **technical performance review** and **field UX testings**.
- Integrated the designed solution into core iOS app for Muse 2, the **second-generation** of the Muse brain-sensing headband. The product was launched and won the **CES 2019 Innovation Awards** in Fitness, Sports, and Biotech.

PROJECTS (simonguo.tech)

Blockchain for Developer DeCal, 2020

- Developed curriculum and taught the **university-accredited** student-run course on blockchain and distributed system development, covering the latest tools and topics in industry and academia.
- Designed lectures, readings, and **coding assignments** to reinforce topics in developer tools, system design, security, network analysis, privacy-preserving verifications; Coordinated with industry experts to deliver talks.

Phiracks, Hack the North 2017

- Created a bike rack that uses **computer vision to detect theft**; also able to execute Ethereum smart contract for each bike and session to protect bike's **identity security** across a city's bike rack network.
- Implemented **Cloud Functions** backend on Google Cloud that enables **smart contracts** on AWS EC2 EVM, client **iOS app**, and the **Qualcomm DragonBoard** to update each other in real-time. Developed the hardware system.
- Awarded finalist (top 14 overall, **co-winners**) at Hack the North 2017 (out of 250+ teams) at the University of Waterloo and gained interest from Alphabet's Sidewalk Labs.

Selected Awards for Various Projects

- 2nd Place Overall at Product Hunt Global Hackathon 2017 (out of 8000+ participants)
- Y-Combinator S18 Batch Top 10% Applicant (2018)
- 2nd Place at SXSW Student Startup Madness 2018 (out of 64+ collegiate startups)
- 3rd Place Overall at TechCrunch Shenzhen Hackathon 2017