

# ALEX YANG

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## EDUCATION

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**University of California, Berkeley**

Aug 2016 - May 2020

B.A. in Computer Science

Course Highlight: Data Structures, Efficient Algorithms and Intractable Problems, Operating Systems and Systems Programming, Great Ideas in Computer Architecture, Discrete Mathematics and Probability Theory, Linear Algebra

Awards: 2015 American Invitational Mathematics Examination, Qualifier (AMC12A/AMC12B)

## EXPERIENCE

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**Electronic Arts | Redwood Shores, CA**

May 2018 - Present

*Software Engineer Intern*

- Implemented synchronous rate limiting into EA's digital platform, protecting server-side resources and limiting fraud
- Developed a centralized mobile subscription service for EA licensed games on Android/iOS devices

**Qualcomm Ubiquitous Swarm Lab | University of California, Berkeley**

Jun 2017 - Present

*Undergraduate Researcher*

- Reduced latency in wireless sensor networks following IEEE standards by changing packet scheduler in OpenWSN OS
- Wrote UDP app in Python and C that sends packets across a network, calculating packet latency accurately to 30.5  $\mu$ s
- Created Python script to interface with AnalogDiscovery2 and onboard GPIO pins. Measures latency accurately to 0.5 ms

**Amazon, CMG Strategy Consulting | Berkeley, CA**

Jan 2018 - May 2018

*Contract Analyst*

- Prescribed product solutions and market strategies for AR View, Amazon's marketplace augmented reality feature
- Harnessed GCS data, focus group results, and online published statistics to build consumer personas and insights

**Computer Science Mentors | University of California, Berkeley**

Jan 2017 - May 2018

*Senior Mentor (Spring '18), Tutor (Fall '17), Academic Intern (Spring '17)*

- Held weekly private and small group tutoring sessions to 21 students, personalizing each session to students' questions
- Guided 5 junior mentors in weekly meetings. Practiced teaching strategies/techniques, helping them become better tutors
- Created exam-level problems and wrote 3 topical guides. Improved test performance of a significant number of my students

## LEADERSHIP

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**Golden Bear Orientation | University of California, Berkeley**

Aug 2017

*Orientation Leader*

- Led 37 first-year students during orientation at UC Berkeley, facilitating icebreakers, tours, and sobering discussions
- Scheduled activities for a week of 15-hour-long days, managed transportation/food, and created lasting group culture

## PROJECTS

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**Low Latency Research Project**

Jun 2017 - Feb 2018

- Published paper in IEEE Xplore showing how packet latency can be drastically reduced by increasing the number of active TX/RX slots in a Time Slotted Channel Hopping network.

**NES Emulator**

Oct 2017

- Designed and implemented the 6502 CPU in Python. Program executes over 150 instructions, and read/write to memory.

**Explorus**

Oct 2016

- Instagram-based travel application built on Python Flask and Heroku with Amadeus API and Instagram API

## SKILLS & INTERESTS

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**Technical Skills**

Python, Java, C, SQL, HTML/CSS, JavaScript, C++, Scheme

**Interests**

Crosswords, Soccer, Chess, Tetris, Food documentaries/videos, Hiking around the world