

ALEX YU

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EDUCATION

UC Berkeley

BA in Computer Science

Class of 2020

GPA: 4.00

Dean's Honor

COURSEWORK

CS 189 Machine Learning

CS 170 Algorithms

CS 61B Data Structures

CS 61A Python Programming

CS 70 Discrete Mathematics

Math 110 Advanced Linear Algebra

Math 53 Multivariable calculus

SKILLS

Languages

C/C++, Python, Java, C#, Javascript

Tools

OpenCV, PCL, Scikit-learn,

Django, Flask

AWARDS

262nd Place of 8216, Facebook Hacker Cup 2018

- Awarded a Facebook Hacker Cup t-shirt for placing 262nd in round two of Hacker Cup 2018.

Bronze Medalist, Canadian Computing Olympiad

- National finalist in Canada's top programming competition for high school students. First place in Western Canada.

Platinum Division, USA Computing Olympiad

- Competed in USACO's top division as an international contestant.

First Place, Startup Weekend Vancouver 2016

- Received first place at Startup Weekend Vancouver for innovative music transcription program.

EXPERIENCE

Research Assistant, FHL Vive Center for Enhanced Cognition

Sep. 2017-Present

- Performing graduate-level computer vision research under Dr. Allen Y. Yang to assemble a universal solution enabling human-computer interaction in augmented reality.
- Part of team developing *OpenARK*, the FHL Vive Center's open-source augmented reality SDK.
Project page: <https://github.com/augcog/OpenARK>.
- Improved accuracy of OpenARK's fingertip tracking algorithm to consistently above 95%.

Software Developer for CS 61A (Introductory Programming Course)

Aug. 2018-Present

- Member of the group developing the Okpy autograder backend, which currently grades millions of coding project submissions each year; created Bacon, an efficient system for running a class-wide contest.

Web Developer for VanHomeSales.com

Aug. 2015-Jun. 2016

- Built plugins to automatically retrieve and update listing information for real-estate website.

Teaching Assistant at TechUpKids

Jun.-Sep. 2016

- Taught children the basics of computer programming at coding camp in Vancouver, Canada.