

# BRIAN HO

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*Innovative and hardworking undergraduate student with an exceptional work ethic. Majoring in Computer Science with a minor in Music at UC Berkeley. Looking to further improve my experience in the computer technology industry.*

## EDUCATION

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### UNIVERSITY OF CALIFORNIA, BERKELEY

*August 2016 – May 2020 (expected)*

#### B.A. Computer Science (3.4 GPA)

- **Relevant Coursework (\* = currently taking Spring 2018):**

- Data Structures (CS 61B)

- Build a SQL-based Database Management System and Domain Specific Language in Java
- Implement 'BearMaps', working with real-world mapping data to create the back end of a "Google Maps"-type project

- Discrete Math and Probability (CS 70)

- Great Ideas in Computer Architecture (Machine Structures) (CS 61C)

- Implement a 32-bit two-cycle processor based on the RISC-V Instruction Set Architecture using Logisim

- \*Efficient Algorithms and Intractable Problems (CS 170)

- \*Foundations of Computer Graphics (CS 184)

- Mesh Editor
- Ray Tracer
- Cloth Simulator

## WORK EXPERIENCE

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### Pyramid Academy

*Employee*

*2014 – 2016*

- Tutor high school and middle school students in Math, English, and Sciences.

## TECHNICAL SKILLS

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- **Programming Languages:**

- Experience in: Java, Python, C, C++, SQL, Scheme

- Git, LaTeX, Autodesk Maya, Adobe Photoshop, Adobe Animate

- Experience with Mac, Windows and Linux OS

## COMMUNITY SERVICE/ACTIVITIES

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### University of California Marching Band

*Computer Committee, Director's Assistant*

*2016 – present*

- Help maintain and handle various tasks within the Cal Band website (using the Django web framework).
- Interact as a liaison between the mellophonium section and the executive committee of Cal Band.
- Administer music testing to enforce playing capabilities within the section.

### Sea Turtle Conservancy (STC)

*Volunteer/Research*

*August 2016*

- Assisted scientists with research on the migration and study of endangered sea turtles during a week-long program located in Tortuguero, Costa Rica.
- Monitored nesting trends and did fieldwork on nesting green sea turtles.

### H.O.P.E. – Helping Our Planet Everyday

*Volunteer*

*2015 – 2016*

- Identify and perform community support in the South Bay area, such as providing food for the homeless in the Redondo Beach area.