BRIAN HO

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EDUCATION

University of California, Berkeley, *Berkeley, CA* ..... 2016 – 2020

- B.S. in Electrical Engineering & Computer Science (EECS)
- Regents' & Chancellor's Scholar (UC Berkeley's most prestigious undergraduate scholarship)
- Courses: Data Structures (CS 61B), Designing Information Devices & Systems I/II (EE 16B/EE 16B), Discrete Mathematics & Probability Theory (CS 70), Structure & Interpretation of Computer Programs (CS 61A), Linear Algebra & Differential Equations (MATH 54), Cryptocurrency Decal (blockchain.berkeley.edu/decal/)

Diamond Bar High School, *Diamond Bar, CA* ..... 2012 – 2016

- Relevant AP Coursework: Computer Science, Calculus AB/BC, Statistics, Physics B, Chemistry, Biology, Microeconomics

Programming Languages: Python, Java, JavaScript, HTML/CSS, PHP, SQL
Tools and Technologies: Git, WordPress, LaTeX, NumPy/SciPy
Languages: Mandarin Chinese (native fluency), Spanish (limited fluency)

EXPERIENCE

Blockchain at Berkeley – Software Developer ..... 2017 – present

- Work with companies to integrate blockchain technology by identifying use cases, building prototypes, and designing solutions
- Currently tackling problem in the pharmaceutical industry with verification, tracing, and identification of drugs through supply chain

UC Berkeley CS 61A – Academic Intern ..... 2017 – present

- Attend weekly labs and office hours and offer assistance with general coursework
- Help students with understanding material and concepts (higher-order functions, recursion, trees, linked lists, etc.)

TEDxYouth@DiamondBar – Social Media & Website Manager ..... 2014 – present

- Keep attendees updated through social media outlets and our website
- Contribute to core planning of upcoming event (venue, speakers, audience, finance, publicity)

The Boeing Company – Advanced Technology/Software Programs Intern ..... Summer 2015

- Wrote scripts and tools in Python for cybersecurity, penetration testing, and network analysis
- Simulated fiber optic telecommunications links and learned about implementing error correcting codes

FIRST Robotics Competition (#3473: Team Sprocket) – Programming Division Lead ..... 2013 – 2016

- Designed and implemented robot code (i.e. sensors, vision, driving algorithms)
- Worked on developing and hosting web applications for the team (i.e. sign-in app, scouting app, parts inventory database)
- Worked extensively with the electrical team with debugging, wiring, and securing connections

PROJECTS

TEDxYouth@DiamondBar Website – www.tedxyouthdiamondbar.com - HTML, CSS, JavaScript

- Built website for the TEDxYouth event using Twitter's Bootstrap Framework

Color Induced Technicolors (CIT) – www.devpost.com/software/connotation-induced-technicolors - Java

- Built a natural language processing service that analyzes the mood and semantics of the written word and renders a color spectrum based on the frequency of words/sentences detected that are positive, negative, or neutral
- Built with a team of 4 members within 24 hours at TeenHacks 2014
- Used Stanford CoreNLP API and generated HSV and RGB spectrums with own Java algorithms

PewPew – www.devpost.com/software/pewpew - C#, Lua

- Built an interactive retro galactic spaceship shooter game with Unity 3D
- Interfaced with a Thalmic Myo for players to control spaceship with hand gestures

AWARDS

Eagle Scout, *Boy Scouts of America* 2015
President's Volunteer Service Award, *Corporation for National and Community Service* 2015
14th of 2140, *EasyCTF* 2015
2nd Place, *TeenHacks* 2014
63rd of 3185, *picoCTF* 2014
National Semifinalist, *Open Source Software Development at National TSA* 2014