

# Alex Zhao

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## EDUCATION

### University of California, Los Angeles

August 2017 - June 2021 (expected)

- Intended B.S. in Computer Science & Engineering
- Current GPA: 3.935/4.00 (4.00 in major classes)
- Relevant coursework: CS 31 (Intro to C++), Math 32A/32B (Calculus of Several Variables)

### Lynbrook High School

August 2013 - June 2017

- Valedictorian, National AP Scholar
- Unweighted GPA: 4.00/4.00; ACT: 36; SAT: 1590/1600
- Relevant coursework: AP Computer Science, AP Statistics, AP Physics C: Mechanics, AP Calculus BC

## PROJECTS

### UCSD COSMOS 2015 Research Project

July 2015

- Led a small group in creating a Python program that generates harmony for a given melody
- Developed an algorithm using music theory knowledge to generate chord sequences
- Received Best Project Award and the title of Gordon Fellow at UCSD

### AP Statistics Final Project

May 2016

- Examined the use of clickbait in Buzzfeed headlines using web scraping and statistical analysis
- Developed an algorithm using regular expressions to find frequencies of words and phrases for use in analysis

### Android App: Perfect Pitch at HSHacks2

February 2015

- Created an Android app that allows people to sharpen their hearing through a simple game
- Used knowledge of sound waves and pulse code modulation to create pitches at different frequencies for the player to guess

### Freelance Work: XPBuy

February 2013

- Created a large-scale plugin for popular game Minecraft using server API knowledge
- Commissioned to develop and maintain a complex kit creation and deployment system
- Implemented and deployed as a vital component in a multiplayer server with over 500 unique members

## EXPERIENCE & LEADERSHIP

### Software Engineering Intern at Daily Bruin Online

October 2017 – present

- Front-end developer for student-run news publication averaging 480,000 monthly views over multiple websites
- Creating internal interview scheduling tool for deployment in all Daily Bruin teams

### Intern at WAlert

July 2016

- Discovered, reported, and fixed numerous bugs in pre-production home alarm system
- Overhauled website, packaging, and user guides for better consistency and readability

### Teaching Assistant at TechSmart Academy

July 2016

- Assisted groups of elementary and middle students with introductory Java programming
- Guided students one-on-one through basic programming skills and support with personal projects

### Secretary and Activities Committee Member in Lynbrook Red Cross Club

August 2015 - June 2017

- Organized and coordinated volunteer events monthly for the 300-person club
- Scouted potential volunteer opportunities and corresponded with several community members regarding event logistics
- Created and maintained Powerpoint slides and Excel spreadsheets as an officer intern

### Clarinetist and Clarinet Section Leader in Lynbrook Marching Band

August 2013 - November 2017

- Performed as part of regional-champion marching band, learning and applying teamwork and communication
- Guided and educated a group of 15 underclassmen, working towards personal growth and musical improvement

## SKILLS

- 6+ years of experience with Java; fluent in Python, C, C++; working knowledge of HTML, PHP, JavaScript, CSS, Git
- Experience with Android app development
- Fluent in English and Chinese; professional Spanish speaking, reading, and writing skills