

Ethan Chiu

ethanchiu@berkeley.edu | <https://ethanchiu.xyz/>

EDUCATION

University of California, Berkeley

Graduating May 2022

B.A. Computer Science

Activities: The Berkeley Group

Diablo Valley College

June 2017 - May 2018

Dual Enrollment with **Wellesley High School**

GPA: 3.739/4.0

Relevant Coursework: Analytic Geometry/Calculus I, Intro to Programming, Adv Programming with C++, Analytic Geometry/Calculus II, Mech. & Wave Motion, Assembly Lang Prog., Linear Algebra, Analytic Geometry & Calculus III

Awards

3rd Place State Award, 2nd Place State Award, & Top 5% of National Teams for CyberPatriot (February 2017, 2016, 2015)

Silver Tier for United States Academic Computing Olympiad (December 2016)

WORK EXPERIENCE

Alpaca | San Mateo, CA

June 2018 - Present

Software Engineering Intern

- Built [CryptoScan](#) which analyzes over 19 cryptocurrencies and identifies bullish and bearish signals over 100 technical analysis rules
- Created a [Go plugin](#) that backfills & actively collects cryptocurrency price data for the open-source financial database library [MarketStore](#)
- Optimized their [algo trading platform](#) by converting Java encryption libraries to Go, improving the performance by 40%

Wellesley College | Wellesley, MA

September 2015 - May 2018

Researcher under the guidance of Eni Mustafaraj

- [Modelled](#) anonymous platforms like the Discord platform using ML & AI techniques w/ Gephi, scikit-learn, and NTLK
- Collected & analyzed millions of Discord messages using Python and its' libraries such as Pandas, Selenium, Scrapy, and Matplotlib
- Worked in Data, Analytics, Visualization Lab at Wellesley College where I created a [digital literacy Chrome Extension](#)
- Created the first online live syntax checker with code execution [PythonBuddy](#) with 1000s of views daily and is open-sourced

Whose Your Landlord | Philadelphia, PA

Jun 2016 - Aug 2016

Software Development Intern

- Programmed an internal analytics tool using Javascript which gathered information like user movements and user retention
- Developed 4 new features using React.js & Ruby on Rails: favoriting feature, flip functionality, and the landlord profile functionality
- Fixed various errors from routing and frontend issues such as fixing an issue with landlords not showing up to the correct queries

LEADERSHIP

Wellesley High School CyberPatriot Team | Wellesley, MA

Sept 2014 - Sept 2017

Founder & Captain

- Programmed scripts using Batch and Bash that detected and eliminated vulnerabilities on Windows and Ubuntu systems
- Solved various networking challenges, constructing different computer networks using various protocols via Cisco's Packet Tracer

Course 6.00.1x at MIT edX | Online

September 2014 - November 2014

Community Teaching Assistant

- Facilitated discussions on lectures and problem sets for over a 1000 students - answered questions on Python concepts

PROJECTS

[PythonBuddy](#) - Research Project (2016 - current)

- Online Python environment with live syntax checking using Python, Flask, and Pylint leveraging multiprocessing, REST, and Socket.IO
- For deployment for many users like MOOCs, I created [PythonBuddySandboxed](#) which uses Docker, Node.js, Express, and Javascript
- Used by over 4000 people daily from all over the world and featured on the most popular Python forums and newsletter across world

[FriendTrend](#) - PennApps (2017)

- Identifies your closest friends on Facebook through machine learning and social media analytics using Python, scikit-learn and numpy

[Watch & Learn](#) - Hack the North (2016)

- Web platform, programmed in Javascript, jQuery, AJAX, and JSON, that helps people learn English while watching YouTube passively
- Uses Javascript, jQuery, & APIs to show corresponding definition, pronunciation, and images upon hovering over a word in subtitle.

[JetOnMars](#) - NASA Space Apps (2016)

- Feasibility study and simulation of jetpacking on Mars with local gravity and accurate atmospheric conditions using C# and Unity

SKILLS & INTERESTS

- *Languages/Scripting:* Java, Javascript, Python, Ruby, SQL, Bash, Batch, C#, C++, ES6, Git, Go, JSX
- *Frameworks/Libraries:* Celery, Flask, Pandas, Node.js, React, Ruby on Rails, Selenium, scikit-learn, SQLAlchemy, jQuery
- *Software/Systems:* Atom, Docker, Github, Postgres, Linux, Terminal, Vim
- *Interests:* 3-point basketball shooting, creating educational tools for all types of learners, Hong Kong