

Oliver Ni

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EDUCATION

University of California, Berkeley

Electrical Engineering and Computer Sciences, B.S.
Mathematics, B.A.

Expected Graduation: May 2026

Grade: 4.0

Relevant Coursework: Data Structures, Machine Structures, Designing Information Devices and Systems, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Linear Algebra

EXPERIENCE

Apple, Inc.

Wireless System Simulation Intern

June – August 2023

- Designed and built unified **data postprocessing and visualization** platform for network simulation data using **ClickHouse**
- Platform decreases amount of time spent by team on wrangling output data into desired formats and charts

Pokétwo

Executive Director, Sole Developer (Self-employed)

May 2020 – Present

Python, Rust, Elixir, MongoDB, PostgreSQL, Redis, RabbitMQ, Docker, Kubernetes

- Developed chat-based Pokémon game on the messaging platform Discord, enabling **5,000,000+ users** to connect online.
- Wrote **20,000 lines** of Python, Rust, and Elixir code using MongoDB and later PostgreSQL.
- Scaled services to handle **2,000+ requests per second** with Kubernetes, gRPC, distributed systems.

ContestDojo

TypeScript, React, Next.js, Remix, Firebase

February 2021 – Present

- Developed an online math competition platform (registration, test-taking, scoring, ranking) with React and Next.js.
- Partnered with **Stanford, Berkeley, Johns Hopkins** to host their math tournaments throughout 2021 and 2022.
- Served **3,000+** competitors from **200+** schools in over 10 online contests so far; continuing to expand to more.

Project Code Foundation

Founder, President

April 2018 – June 2022

- Directed 2 hackathons for middle and high school students with 200+ concurrent participants each.
- Led 30+ free online programming classes taught to **1,000+ youth** total, personally developed and taught 6 courses.

Lynbrook High School

Mobile Application Developer

September 2019 – June 2022

- Developed application with React Native for my high school, serving **2,000+** students, teachers, and parents.
- Trained team of **5** other students to continue maintaining and improving the app after my own graduation.

Lynbrook High School

Teaching Assistant, AP Computer Science A

August 2021 – June 2022

- Developed Visual Studio Code extension to modernize assignment download and submission for **200+ students**.
- Extension was integrated into CS department's curriculum to replace older Eclipse IDE for smoother learning.
- Assisted with teaching Java, Algorithms, and Data Structures to students.

HONORS & AWARDS

USA Computing Olympiad, Platinum Contestant

Top ~500 pre-college students in US (2022)

USA Physics Olympiad, Semifinalist

Top ~400 pre-college students in US (2020, 2022)

American Invitational Mathematics Examination, Qualifier

Top 5% of AMC 12 participants (2019, 2021, 2022)

Advent of Code, Global Rank 29

29/250,000+ (2022), 39/200,000+ (2021), 34/175,000+ (2020)

Eagle Scout

Developed extensive leadership and planning skills through my 8-year scouting journey.