Oliver Ni

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Education

University of California, Berkeley   **Expected Graduation:** May 2026

Electrical Engineering and Computer Sciences, B.S.   **Grade:** 4.0/4.0

Mathematics, B.A.   *ongoing

Relevant Coursework: Data Structures · Computer Architecture · Operating Systems* · Discrete Mathematics & Probability Theory · Structure and Interpretation of Computer Programs · Linear Algebra · Abstract Algebra* · Real Analysis*

Experience

Apple *Software Engineering Intern*   June – August 2023
- Accelerated wireless simulation workflow by building a unified internal platform for **data processing** and visualization
- Designed and implemented specialized query language using **parsing expression grammars** and executed them in **ClickHouse**

Pokétwo *Creator, Lead Developer*   May 2020 – Present
- 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 PostgreSQL.
- Scaled services to handle **2,000+ requests per second** with Kubernetes, gRPC, distributed systems.
- Recruited and led support team with 6 administrative staff members and 30+ community moderators.

Project Code Foundation *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 *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, data structures, and algorithms to students.

Projects

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.

Lynbrook Mobile App *Python · Django · PostgreSQL · TypeScript · React Native*   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.

Technical Skills

Programming Languages: Python · JavaScript · TypeScript · Rust · Elixir · C · Java · SQL · HTML/CSS

Web Frameworks: React · React Native · Next.js · Remix · Svelte · SvelteKit · Vue.js · Django · Flask · Starlette

Developer Tools: Docker · Kubernetes · Nix · LaTeX · Typst · Linux · Git · GitHub Actions

Other Technologies: NumPy · PyTorch · Pandas · gRPC · PostgreSQL · MongoDB · Redis · Microsoft Excel

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.