

# Hugo Zhang

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## EDUCATION

### Northwestern University, McCormick School of Engineering

*B.S. in Computer Science*

*Minor in Entrepreneurship, Farley Center for Entrepreneurship and Innovation*

*Projected Graduation for June 2023*

## TECHNICAL SKILLS

C/C++, JavaScript (TypeScript, React.js, Node.js, Express.js, Jest, Cypress, Webpack), Java, Python, Swift, HTML/CSS, REST APIs, Stripe API, Firebase, Bootstrap/MUI, MatLab, Flask, PostgreSQL, SQLite, FFmpeg, OpenCV, Blaze/Bazel.

## PROFESSIONAL EXPERIENCE

### Google, New York, NY

*Software Engineer Intern*

*June 2022 - September 2022*

- Designed and developed a C++ Service API pipeline on the Google Formats Server that automatically creates beautiful ad layouts by applying machine learning models on advertiser assets for both client and internal use.
- Developed standalone C++ binaries using machine learning models to perform subject detection and extraction on images, natural background replacement, and intelligent image compositing.
- Researched, tested, and documented existing Google machine learning solutions in a comprehensive Exploration document for reference by future engineers.

### Community Connections DC, Washington, DC

*Full-stack Web Developer, Independent Consultant*

*October 2020 - August 2021*

- Sole UI/UX website developer for Community Connections' new main website, reducing website maintenance costs by over 90% annually.
- Handled website design including composition, color, illustration, typography, and branding.
- Features include an online interactive patient/provider referral tool, real-time email notifications.

### Pittsburgh Quantum Institute, Pittsburgh, PA

*Information Technology Developer*

*September 2019 - March 2020*

- Built web application to quickly format article publication tweets using Javascript, HTML/CSS.
- Developed Google Scholars web-scraping application using Python to automate publication updates.
- Maintained [www.pqi.org](http://www.pqi.org), provided troubleshooting assistance for lab equipment.

### Medumo, Boston, MA

*Software Engineering Consultant*

*Deployment Engineer Intern*

*August 2018 - August 2019*

*July 2018 - August 2018*

- Developed a new patient lookup tool and user feedback system using React.js to streamline patient communications.
- Designed and developed an online ROI calculator for medical practices using Javascript, HTML/CSS.
- Automated, tested, and improved machine learning AI to categorize user feedback in Python.

## PROJECTS

### Anime Box Club, Online Business

*Founded June 2020*

- Sole founder of [animeboxclub.com](http://animeboxclub.com), a customizable subscription box company for Anime enthusiasts with over 3,000 registered members and 250 active monthly subscriptions.
- Designed and developed custom, scalable eCommerce storefront and internal order fulfillment web page that supports transactions, user accounts, real-time notifications.
- Devised subscription-based business model, managed customer relations, oversaw influencer marketing campaigns, handled inventory management with overseas manufacturers.

### TraceJS, Startup

*Founded July 2021*

- Sole founder and developer of [tracejs.co](http://tracejs.co), a server-less RESTful API that adds debugging capabilities to any Javascript project and automatically reports deployment bugs to a centralized online dashboard. Created with Express.js, Firebase, Javascript, HTML/CSS, Stripe.

### Photolockr, iOS App

*March 2018*

- Developed a protected, photo-storing iOS app using Swift and Firebase with features including user accounts, protected galleries, integrated camera usage, optimized user interface.

## LEADERSHIP

### Northwestern Chinese Student Association

*Dynasty Head, Student Mentor*

*September 2020 - Present*

- Worked with social chairs to plan and host weekly club-wide events, assisted with club recruiting.
- Individually mentored new members and interviewed others to assign appropriate mentors.