

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, 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

██████████ Online Business

Founded June 2020

- Sole founder of ██████████, a customizable subscription box company for ██████████ 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, 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.