

Ray Chu

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EDUCATION

Hunter College

AUG 2025- PRESENT

B.A. - Computer Science

- Daedalus Honors Scholar, Computer Science

Manhattan Early College School for Advertising

SEP 2021 - JUN 2025

CTE Endorsed HS Diploma - Advertising & Media

- Adobe Photoshop [certification](#) in professional visual design.

EXPERIENCE

Software Quality Assurance Intern

JUL 2025 - AUG 2025

DYCD - Internship

- Conducted end-to-end software performance testing by developing **3** unique test cases which had a **71%** step success rate on simulating the workflow and behavior of users within the software application.
- Ensured software accessibility for all users by performing **26** software accessibility tests on Azure DevOps which achieved a **72%** pass rate which helped identify over **50** software accessibility issues for developers to fix.
- Utilized the Microsoft Accessibility Insights toolkit to assess over **30** web pages which helped identify over **175** software accessibility issues, improving web accessibility compliance.

Junior Front End Engineer

SEP 2024 - JAN 2025

Unlevered - Seasonal

- Decreased the front-end content loading speeds by over **2.3x** by eliminating over **57%** of redundant API request calls made to the back-end which delayed UI rendering.
- Developed and implemented a reusable table component across **11** different pages that displays financial data fetched from the server, reducing over **52.9%** of redundant code required to display the data.
- Orchestrated the development of the front-end user interface by taking charge of over **64%** of new Figma web designs and contributing to the development of **84%** of web pages.

Front End Engineer Intern

JUL 2024 - SEP 2024

Unlevered - Internship

- Leveraged MobX state management to store server fetched data, improving the overall user experience by eliminating **700ms** of additional loading when navigating across the website application.
- Developed form validation across over **60** data inputs and implemented Cross-Site Request Forgery (CSRF) tokens within the request to ensure faultless data entry into the back-end MongoDB and AWS database.
- Implemented RESTful APIs including generative AI models, SEC filings data, and financial data analysis APIs into the front-end, transforming their JSON responses into responsive and interactive user interfaces with React 18.

PROJECTS

ADVYNA

JUL 2025 - PRESENT

Tech Stack - ReactJS, NextJS, TypeScript, Tailwind CSS, GSAP, Python, AWS | [Project Link](#)

- **Project description:** Free AI-based photo booth web application with over **25+** custom filters, **50** photo strip customization presets custom AI-generated frames, and free download of their final photo strips.
- Improved server-side authentication runtime by over **92.4%** by implementing direct AWS SDK integration on the back-end, streamlining the previous AWS API Gateway and AWS Lambda function architecture.
- Reduced average image storage sizes by **90%** from (**1.7 MB** → **210 KB**) through data compressed serialization, allowing for **19x** more data to be stored the browsers localStorage which significantly improves user experience.
- Increased algorithm performance speeds by **78.2%** from (**180.7 MS** → **39.4 MS**) through optimizing data search speeds from linear-time **O(n)** to constant-time **O(1)**.

SKILLS

Programming: HTML, CSS, JavaScript, TypeScript, Python

Frameworks / Libraries: React.js, Next.js, Redux, MobX, TailwindCSS, Material UI, Framer Motion, GSAP

Back-End / Databases: Firebase, MongoDB, DynamoDB, RESTful APIs

Tools / Platforms: Amazon Web Services (AWS), Azure, Figma, Adobe Photoshop, GitHub