

# Ray Chu

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## EDUCATION

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### Hunter College

New York, NY

B.A. - Computer Science

- Daedalus Honors Scholar, Computer Science

## WORK EXPERIENCE

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### DYCD (Department of Youth & Community Development)

New York, NY

Quality Assurance Intern

Jul 2025 - Aug 2025

- Developed and executed 3 end-to-end software performance test cases which simulated core user workflows, achieving a 71% step success rate and validated critical flaws.
- Enhanced software accessibility for users by performing 26 accessibility tests in Azure DevOps which achieved a 72% pass rate and identified 50+ accessibility issues.
- Assessed 30+ web pages with Microsoft Accessibility Insights, identifying 175+ accessibility issues which improved compliance to the Web Content Accessibility Guidelines (WCAG).

### Unlevered

New York, NY

Junior Front-End Engineer - Seasonal

Sep 2024– Jan 2025

- Improved the front-end loading times by 2.3x by eliminating over 57% of redundant API request calls made to the back-end, which reduced the render latency.
- Designed and developed a custom React table component used across 11 pages to render server-side financial data, cutting duplicate front-end code by 50%.
- Led the UI implementation from Figma to React, by designing over 64% of new Figma web designs and contributed to the development of 84% of new pages.

### Unlevered

New York, NY

Front-End Engineer Intern

Jul 2024 – Aug 2024

- Used MobX to cache fetched data from the server which eliminated 700ms of additional load when navigating across the website application.
- Implemented client-side form validation for 60+ inputs and added Cross-Site Request Forgery (CSRF) protection to secure requests to backend databases such as MongoDB and AWS S3.
- Integrated RESTful APIs (OpenAI models, SEC/financial data) into the front-end, transforming their JSON responses into responsive React 18 user interfaces.

## PROJECTS

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### ADVYNA

Jul 2025 - Present

React.js, Next.js, TypeScript, Tailwind CSS, GSAP, Python, AWS, ComfyUI

- Developing an AI-based photo booth web application using React.js which allows users to select custom filters to take photos from and fully customize their photostrip with AI-generated frames/stickers.
- Improved server-side authentication runtime by over 92% by replacing API Gateway + Lambda calls with direct AWS SDK integration on the back-end.
- Reduced average image sizes by 88% from (1.7 MB→ 210 KB) through data compressed serialization, allowing for 19x more storage on the browsers localStorage API which improves user experience.
- Increased search performance speeds by 78% from (180.7ms→ 39.4ms) by replacing linear speed array search with constant speed set-based search.

## SKILLS

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**Programming:** HTML, CSS, JavaScript, TypeScript, Python

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

**Back-End & Databases:** RESTful APIs, Firebase, MongoDB, DynamoDB

**Cloud & Tools:** AWS, Azure, GitHub, Figma, Adobe Photoshop