

# RICKY ZHANG

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## EDUCATION

### New York University

Expected May 2025

B.S. in Computer Science – Major GPA: 3.9 - 3x Dean's List

New York, NY

- **Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Intro to Databases, Web & Full Stack Development, Computer Architecture, Operating Systems, Design & Analysis of Algorithms, Computer Networking, Computer Security, Parallel Computing

## EXPERIENCE

### Software Engineer Intern @ Pupil

Mar 2024 – May 2024

TypeScript, JavaScript, SvelteKit, Next.js, Supabase

New York, NY

- Designed and implemented a responsive, high-performance landing page which enhanced lead generation efficiency by 20% through optimized call-to-action placements and user flow
- Improved performance of the mobile app by 18% by optimizing queries in our internal API

### Computer Aide Intern @ Con Edison

Jun 2023 – Mar 2024

SQL, SharePoint, Oracle SQL Developer

New York, NY

- Executed SQL queries on Oracle Database to extract relevant customer data, resulting in a 20% reduction in appointment scheduling time
- Contributed to the development of a SharePoint website for the Underground & Cable department to streamline shift summary submissions, enhancing data organization and reducing information retrieval time by 35%
- Performed time audits for take-home vehicle logs, ensuring precise overtime reporting and reducing overtime costs

### Computer Science Tutor @ New York University

Sep 2022 – Jun 2023

Python

New York, NY

- Provided one-to-one tutoring to up to 5 undergraduate students per week in computer science, specializing in Python programming and data structures
- Remotely monitored and evaluated academic performance of students

## PROJECTS

### Guessify | Typescript, Next.js, MySQL, Zustand, Prisma, Redis, TailwindCSS, Spotify Web API

- Developed an interactive song guessing game that integrates Spotify's Web API for playlist and song playback
- Engineered a robust state management system using Zustand to enable real-time game state updates
- Leveraged Redis caching to optimize playlist loading, reducing load times by 70% for large playlists (>1000 songs)

### TrailerMeter | Typescript, Next.js, TailwindCSS, Supabase, Drizzle ORM, Selenium, GitHub Actions

- Created an interactive web app enabling users to guess Rotten Tomatoes scores for random movie trailers, attracting over 100 monthly visitors
- Implemented CI/CD pipeline using GitHub Actions for automated linting, building, and testing to ensure code quality
- Implemented Python web scraper with Selenium to gather movie scores from Rotten Tomatoes, storing over 5,000 entries in a PostgreSQL database on Supabase

### NBA CourtSide | TypeScript, Next.js, ChakraUI

- Developed a responsive web application featuring a clean, minimal interface using ChakraUI for NBA statistical leaders and box scores, loading over 5,000 statistics
- Utilized useSWR, custom hooks, and serverless Next.js API routes for efficient data fetching and automatic revalidation to ensure up-to-date 100% accuracy of stats

### Politigram | JavaScript, Next.js, TailwindCSS, Vercel, Mongoose, BERT, Google Cloud Vision

- Launched a pioneering social media web application filtering content based on a political spectrum slider
- Trained a machine learning model to evaluate images using the Google Cloud Vision API, reaching an accuracy of 64%

## SKILLS

**Languages:** TypeScript, JavaScript, Java, C++, C, Python, SQL, Bash, x86, HTML/CSS

**Technologies:** Git, Docker, Kubernetes, GitHub Actions, Next.js, SvelteKit, React Native, Node, Express, Flask, PostgreSQL, MySQL, Redis, Prisma, SQLAlchemy, Sequelize, Redux, Zustand, MongoDB, AWS EC2, AWS S3, AWS DynamoDB, AWS RDS, Firebase, Supabase, Tailwind, React Query, Selenium, Pandas, MPI, OpenMP