

# RICKY ZHANG

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## SKILLS

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

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

## EXPERIENCE

### Software Engineer Intern @ Pupil

Mar 2024 – Present

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

**Politigram** | JavaScript, Next.js, 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%

**Trailerometer** | 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 80 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 and BeautifulSoup to gather movie scores from Rotten Tomatoes, storing over 5,000 entries in a PostgreSQL database on Supabase

**Guessify** | Typescript, Next.js, MySQL, Prisma, TailwindCSS, Spotify Web API

- Developed a music trivia web app, integrating Spotify's Web API for playlist and song playback
- Leveraged Next.js server actions and Prisma ORM for secure database operations, enabling robust database management with a PlanetScale MySQL cloud database

## EDUCATION

### New York University

Expected May 2025

B.S. in Computer Science – GPA: 3.8

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

## INTERESTS

**Interests:** Competing at hackathons, reviewing indie movies, watching New York Knicks basketball

**Extracurriculars:** Society of Asian Scientists & Engineers (SASE), Dolphin Swimming