RICKY ZHANG

 Personal Website   rz2342@nyu.edu   www.linkedin.com/in/ricky-zhang-dev   github.com/rzh4321

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, React Native, 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*

- Developed an interactive movie rating prediction game that achieved a peak monthly traffic of over 100 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% within 48 hours

SKILLS

Languages: TypeScript, JavaScript, Java, C++, C, Python, SQL, Bash, x86, HTML/CSS
Technologies: Git, Docker, GitHub Actions, Next.js, SvelteKit, React Native, Nodejs, Express, Flask, PostgreSQL, MySQL, Redis, MongoDB, AWS (S3, DynamoDB, RDS), Firebase, Redux, Tailwind, Selenium, Pandas, Spring Boot (beginner level)