Rhyan Barrows

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EDUCATION

CUNY Lehman College | B.S. Degree in Computer Science | GPA: 3.5 | December 2026
Related Coursework: Data Structures, Algorithms, Python, C++, & Java Programming, Linear Algebra, Calculus 1, 2, & 3, Computer Organization, Probability, Cybersecurity, Distributed Systems

TECHNICAL SKILLS

Front End | React.js, JavaScript, TypeScript, CSS, Node.js, Angular.js, Vercel, Kotlin
Back End | C++, Java, Spring Boot, Python, Flask, PostgreSQL, Supabase, Render, REST APIs
Testing/Deployment | JUnit, Pytest, Jasmine, Cloudinary, Grafana Cloud
Developer Tools | GitHub Actions, Git, Docker, NPM, Figma

WORK EXPERIENCE

Incoming Software Engineer Intern (Expected) | BMW | Woodcliff Lake, NJ | Sept. 2025 – Dec. 2025
- Will contribute to in-vehicle infotainment using **Kotlin** & **Python** for app development.

Software Engineer Intern | NJ TRANSIT | Newark, NJ | June 2025 – August 2025
- Developed an **AI** bus tracking **full stack** app proof of concept using **Python**, **React.js, PostgreSQL**, and **OpenCV** that can **scale** to keep track of **2000+** buses in NJ TRANSIT's fleet.
- Reduced the time it takes for bus drivers and garage managers to locate buses from **10+ minutes** to **near instant**, a **greater than 99%** improvement.

Software Engineer Intern | NYC Office of Tech & Innovation | Brooklyn, NY | June 2022 - Aug 2022
- Maintained over **100+** NYC.gov websites utilizing **HTML, CSS, JavaScript, & WordPress**.
- Implemented surveys for **10** community boards using **JavaScript** for over **1,000,000+** residents.

Software Engineer Winter Intern | Barclays | Whippany, NJ | December 2021 - January 2022
- Built a **front end** for Barclays stock traders using **Angular.js, TypeScript**, **CSS, and HTML** to view **100+** daily trade statuses.
- Achieved over **90%** coverage using unit test coverage with **Jasmine** to test UI state changes.
- Reduced **front end** load time by **35%** using efficient Angular.js component rendering and lazy loading of trade data.

Software Engineer Winter Intern | AccuWeather | New York, NY | December 2020 - January 2021
- Designed a **front end** for the AccuWeather Ready website using **Google JamBoard** & **Figma** with a team of **4** interns for **1.5 billion+** global AccuWeather daily visitors.
- Developed the website using **HTML, CSS, & JavaScript** to keep track of extreme weather events in all **50 states** in the United States.

PROJECTS

BeastMode.ai | **Java Spring Boot**, **React.js, PostgreSQL, Supabase, JUnit, Docker, GitHub Actions, Vercel, Cloudinary, Hugging Face API, Grafana Cloud**

- Engineered a **full-stack** platform enabling users to build workouts and track progress over time. The platform also has a video upload pipeline using **Cloudinary** for media storage and uses the **Hugging Face API** for AI inference to critique lifting form.

RacerMaps | **Python (FastAPI), C++, React.js, PostgreSQL, Supabase, WebSockets, Pytest, Docker, GitHub Actions, Vercel, Cloudinary, Grafana Cloud**

- Architected and deployed a **collaborative** fitness platform where multiple users can draw and share running routes on an interactive map of the United States. **WebSockets** power live updates so users can instantly view their peers' routes and stats (distance, pace, time) as they are logged.
- Implemented **low-latency data processing** in **C++** to optimize route updates and reduce synchronization delays across clients.

LEADERSHIP, ORGANIZATIONS, & EXTRACURRICULARS

- Student Fellow in **Basta** & **ColorStack** – Assisting students with resume and interview prep
- **CodePath** | Technical Interview Preparation (101 and 102), Android and Web Development
- **CUNY Tech Prep** | Cohort 11 Member in Full-Stack Web Development Path