

# SHOHRUZ ERNAZAROV

New York City, NY | [shohruzernazarov04@gmail.com](mailto:shohruzernazarov04@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

### Hunter College, City University of New York (CUNY)

Bachelor of Arts in Computer Science

Expected Graduation – May 2026

New York City, NY

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management, Machine Learning, OOP

## EXPERIENCE

### Software Engineer Intern

October 2025 – Present

Metropolitan Transportation Authority (MTA)

Jamaica, NY

- Implemented a full-stack real-time RFID tracking system using **React**, **TypeScript**, **Java**, **Spring Boot**, and **Kafka**, with **SSE** streaming for live updates, enabling continuous monitoring of **1000+** trains daily across **10+** readers
- Migrated a legacy ColdFusion web application, utilizing **React** and **TypeScript** with **TanStack Query** and **TanStack Table** for cursor-based pagination, reducing page-load times by **60%** for **200+** internal users

### Solutions Engineer Intern

June 2025 – August 2025

Burt Intelligence

New York City, NY

- Deployed a **RAG** Slackbot using **Python**, **FastAPI**, **AWS Lambda**, **Bedrock** and **S3**, processed **1000+** files of Confluence and Drive data for real-time Q&A with **90+**% accuracy, cutting average employee search time by **70%**
- Developed a **Ruby** class supporting ingestion for CSV and XLSX files with **AWS EC2** from customer data sources exceeding **10,000+** rows, accelerating onboarding of new data sources for Solutions Engineers by **65%**

### Software Engineer Intern

April 2025 – May 2025

Mermory

Remote

- Improved **React** hot reload times by **20%** and reduced bundle size by **5%** by refactoring layouts and optimizing reusable components, enabling faster feature iteration and reducing local development feedback loops
- Implemented mobile responsiveness across 5 key dashboard pages with **TailwindCSS**, **MaterialUI** and **Motion**, ensuring a consistent user experience across **10+** screen sizes

### Software Engineer Intern

September 2024 – January 2025

Movement Vault

Remote

- Led a team of 4 interns to create a fitness-based Android app end-to-end, creating **6+** frontend screens and **15+** components in **Kotlin** and **Jetpack Compose** in an agile environment with weekly sprints
- Optimized app performance by incorporating lazy loading for images and videos stored in **AWS S3**, ensuring efficient resource usage, which led to a **15% decrease** in initial load-up time for **4500+** exercises

### Software Engineer Intern

July 2023 – August 2023

Unadat

Remote

- Enhanced data consistency and integrity by implementing **SQL transactions** in PHP for 4 high-traffic pages, ensuring **ACID** compliance, preventing partial updates, and reducing data corruption incidents by **40%**
- Achieved streamlined data management by implementing efficient **HTTP** requests in AJAX, enabling seamless and secure **CRUD** operations of private customer financial data to the **MySQL** database

## PROJECTS

### CityCompass | Python, FastAPI, LangChain, PostgreSQL, Docker, Next.js, TypeScript

[GitHub](#)

- Built a conversational **AI** agent using **LangChain** to help users explore NYC neighborhoods, integrating a custom XGBoost ML model (NSQI) and US Census API as agent tools with real-time SSE streaming
- Optimized Docker build processes by creating separate development and production Dockerfiles with **layer caching** and **multi-stage builds**, reducing build times by **40%** and image sizes by **35%**

## SKILLS

**Languages:** JavaScript, TypeScript, Python, C/C++, Java, Kotlin, SQL, HTML/CSS, Ruby, PHP

**Libraries/Frameworks:** Next.js, React.js, Express.js, Node.js, Nest.js, FastAPI, Spring Boot, LangChain, MongoDB

**Developer Tools:** Git/GitHub, AWS, GCP, Azure, Docker, Firebase, Vercel, Netlify, Cursor, Postman, Jupyter Notebook

## LEADERSHIP

### Founder & President

August 2023 – Present

Computer Science Club at Hunter College

New York City, NY

- Directed a team of 22 to organize 20 career-readiness events for a total of **900+** attendees from a **1200+** roster