SHOHRUZ ERNAZAROV

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EDUCATION

Hunter College, City University of New York (CUNY) Expected Graduation – May 2026
Bachelor of Arts in Computer Science *New York City, NY*
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management, Deep 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, Stripe, MongoDB, LangChain
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