

# Harutyun Sargsyan

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🔗 Harut Sargsyan - Portfolio

## EDUCATION

### Northwestern University

BS/MS in Computer Science

Expected Jun. 2027

Evanston, IL

- **GPA:** 3.82/4.00
- **Relevant Coursework:** Computer Systems, Data Structures and Algorithms, Database Systems, Scalable Software Architecture, Programming Languages, Parallel Computing, Design and Analysis of Algorithms

## EXPERIENCE

### CDK Global

Software Developer Intern

Jun. 2025 - Present

Hoffman Estates, IL

- Developing features for a .NET web application on the OEM team that handles car service appointment scheduling.
- Participating in bi-weekly sprints within a Scrum-based Agile team to integrate appointment data into a dealership-facing dashboard, streamlining workflows for service staff.
- Optimized slow API endpoints using New Relic APM traces, resulting in a 25% improvement in average response time.
- Built a reusable sidebar component for the company's UI component library, reducing duplicate code by 20% and improving development speed and design consistency across applications.

### Northwestern CS Department

Peer Mentor - CS 212 (Discrete Mathematics)

Apr. 2025 - Present

Evanston, IL

- Held weekly office hours and led structured exam review sessions for 30+ students, reinforcing key concepts in logic, set theory, and proof techniques.
- Evaluated and provided feedback on 100+ student assignments, ensuring grading consistency and supporting student learning through targeted comments.
- Collaborated in weekly staff meetings to propose and implement improvements to course delivery.

### SLYD - Computer Resource Sharing company

Software Engineer Intern

Jun. 2024 – Sep. 2024

Chicago, IL

- Designed and developed a web application using C# (.NET) to facilitate peer-to-peer sharing of computing resources, improving accessibility and operational efficiency for users.
- Modeled and implemented database schemas based on business logic using an object-relational mapping framework, supporting robust data management.
- Containerized the application and integrated automated CI/CD workflows to streamline deployment, resulting in a 30% reduction in deployment time.

### ReCat - long-distance relationship startup

Software Engineer

Feb. 2024 – Sep. 2024

Evanston, IL

- Engineered a cross-platform application in **React Native** achieving a **20%** improvement in user satisfaction based on feedback.
- Developed a customizable settings screen, allowing users to tailor notification and preference settings.
- Engineered Data model representation to store and retrieve data from **Firestore** with low latency.

## PROJECTS

### GroceryScout - Grocery Price Tracking App

June. 2025

- Developed a full-stack grocery price tracking web app using React, TypeScript, Firebase Firestore, and Google Authentication, enabling users to track, compare, and analyze grocery prices across multiple stores.
- Engineered robust, user-specific data models and atomic Firestore operations to ensure data integrity, real-time updates, and seamless CRUD for products, stores, and price entries.

### LeFinance - Stock Portfolio Management

Dec. 2024

- Developed a stock portfolio tracking web app using **React**, **Firebase**, and **AWS Lambda** with secure authentication.
- Implemented cloud architecture with AWS services, including **API Gateway**, **RDS**, and **EventBridge** for automated personalized stock market newsletters.
- Utilized “Prophet” machine learning time series model to predict the future price for a given stock price.

### Northwestern F1 - Data analytics team

Sep. 2023 – Mar. 2024

- Developed and implemented a program in **C++** to control water flow and temperature sensors for Northwestern's F1 car coolant system.
- Integrated CAN communication protocols to transmit sensor readings between controllers, ensuring accurate data flow.
- Refactored legacy code using object-oriented programming principles, enhancing maintainability.

## SKILLS

**Programming Languages:** C/C++, Python, Javascript/TypeScript, C#(.NET), SQL(Postgres, MySQL)

**Frameworks/Libraries:** GTest, OpenMP, NumPy, Pandas, Node.js, React/Redux, Matplotlib

**Infrastructure:** LINUX, Amazon Web Services, Firebase, Docker, Git, GitHub + Actions