

Harutyun Sargsyan

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🔗 Harut Sargsyan - Portfolio

EDUCATION

Northwestern University

B.S. 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, Interpreters, Discrete Mathematics

EXPERIENCE

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.
- Developed secure remote access and resource management features, enhancing user experience and platform reliability.
- 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.

Franqbox - Review and Rating Platform

Software Developer

Jun. 2020 – Sep. 2021

Hannover, Germany(remote)

- Redesigned the business dashboard using React.js and Ant Design and developed a multi-step onboarding system, improving user experience and onboarding efficiency.
- Developed controllers using **Express.js** to retrieve data from PostgreSQL, reducing query response times by **15%** by adding indexing and optimizing database queries.
- Configured a Github pages pipeline to automate frontend application deployment on AWS Lightsail, significantly reducing deployment time.

PROJECTS

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.

LEADERSHIP AND ENGAGEMENT

Armenian Student Association - Treasurer

Sep. 2024 - Present

- Managed budgeting, expense tracking, and financial reporting to the University Club Administration office.
- Coordinated fundraising events, increasing the budget by **20%** for student programs.

SKILLS

Programming Languages: C/C++, Python, TypeScript, C#(.NET), SQL

Frameworks/Libraries: GTest, NumPy, Pandas, Node.js, Matplotlib

Infrastructure: UNIX, Amazon Web Services, Docker, Git, GitHub + Actions