Harutyun Sargsyan

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EDUCATION

Northwestern University   **Expected Jun. 2027**
B.S. in Computer Science   *Evanston, IL*
- **GPA:** 3.8/4.0
- **Relevant Coursework:** Computer Systems, Data Structures and Algorithms, Scalable Software Architecture, Programming Languages, Discrete Mathematics

EXPERIENCE

SLYD - Computer Resource Sharing company   **Jun. 2024 − Sep. 2024**
Software Engineer Intern   *Chicago, IL*
- Designed a **C#(.NET)** web application allowing users to rent and lend computer resources, streamlining resource sharing among users.
- Deduced Entity Relational Diagrams out of the business logic of application and created **PostgreSQL** schemas by utilizing Entity Framework.
- Implemented resource sharing functionality and secure SSH connections through Canonical LXD API and Cloudflare tunneling, enhancing reliability and user experience.
- Ensured consistent environment by containerizing the application with **Docker** and automated CI/CD pipelines by utilizing Github Action for deploying the application to **AWS ECR**, reducing deployment time by **30%**.

ReCat - long-distance relationship startup   **Feb. 2024 − Sep. 2024**
Software Engineer   *Evanston, IL*
- Engineered a 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   **Jun. 2020 − Sep. 2021**
Software Developer   *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.

PROJECTS

LeFinance - Stock Portfolio Management [(GitHub)](GitHub)   **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