






Samuel Roberts

 (612)-272-0644  sjroberts293@gmail.com  sjroberts2004  samuel-joshua-roberts  samroberts.lol

Education

University of Minnesota – Twin Cities (B.S. in Computer Science)

Expected May 2026

- **Activities:** Video Game Dev Club, Barbell Club, Run Club, Lettuce Club
- **Relevant Coursework:** Algorithms and Data Structures, Machine Learning, Artificial Intelligence, Machine Architecture, Operating Systems, Database Management Systems

Skills, Technologies, and Awards

Skills: Python, C++, Java, JavaScript/TypeScript, React, NodeJS, HTML/CSS

Technologies: Kafka, AWS, MongoDB, MySQL, Firebase, Google Cloud, Docker, Git/Github, Splunk, Spring Boot

Awards: Dean's List, 4th @ HackUlowa'23

Experience

Southwest Airlines, Software Engineering Intern

Jan 2025 - Apr 2025

- I will be joining the Customer Communications Services and Southwest Vacations Services teams this upcoming Spring

Chewy, Software Engineering Intern

Jun 2024 - Aug 2024

- Utilized **Kafka** and **Spring Boot** for **REST API** creation, leveraging **Kotlin** as a reference to identify **admin endpoints**, resulting in a time savings of approximately **10 hours** per week
- Investigated and identified **25** missing **Admin REST API** endpoints within the **Kyrios** core data provider, enhancing system functionality and administrative capabilities
- Initiated and managed the complete sunset process for **Kyrios** users, effectively retiring the platform while maintaining user support and communication

Chewy, Software Engineering Co-op

Jun 2023 - Dec 2023

- Developed **REST API** endpoints using **Spring Boot**, **Java**, and **Kafka** to fetch and process data related to user pets and animal records, leading to a **10%** reduction in response time
- Refactored Chewy's pet profile data to **DynamoDB** resulting in an elastic search and **10x** improvement in speed
- Spearheaded **GraphQL** schemas to unify data sources and replace existing APIs, reducing query times by **15%**
- Optimized customer interaction efficiency by developing a datastore UI with TypeScript, React, and GraphQL, achieving a significant decrease in memory allocation for customer interactions

Technical Projects

cardfor.me, 4th @ HackUlowa 2023 (github)

Python, FastAPI, Flask, Next.js, PlaidAPI, TypeScript

- Formulated a no-affiliate credit card suggester service optimizing plaid API service.
- Plaid secure credit-card authentication token granted in which we formulate the mathematical best best option concerning most benefits and granting most cash back for each user

Dinologue, LA Hacks 2024 (github)

Next.js, TypeScript, Three.js, Google Gemini, Python

- Created an interactive language learning platform featuring speech-to-text and text-to-speech capabilities, using Gemini API.
- Designed and implemented a dynamic front-end interface with Next.js, TypeScript, and Three.js, creating an animated, interactive experience with our mascot, Theo the dinosaur.
- Engineered robust backend architecture to support real-time language detection and grammatical corrections, ensuring seamless and accurate language interaction for users.

Leadership and Activities

Robotics Team Lead

Sep 2020 - May 2022

- Led a team of students to design a mechanism that won the **Excellence in Engineering Award**
- Organized events at fairs and local elementary and middle schools to introduce over **5,000** people to Robotics.