

# Sam Ismailov

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## EDUCATION

Illinois Institute of Technology

Chicago, Illinois

B.S in Computer Science

Expected Graduation: May 2027

GPA: 4.0/4.0

Courses: Data Structures & Algorithms, Discrete Structures, Object-oriented programming, Calculus 1-2-3

## SKILLS

Languages: Python, JavaScript, TypeScript, PHP, SQL, HTML, CSS

Frameworks and Tools: React.js, Next.js, JQuery, Tailwind CSS, Material UI

Databases: MySQL, Firebase

APIs & Platforms: GitHub, OpenAI API, Vercel

## EXPERIENCE

ResMatch Research Program | Student Researcher

Sep 2025 – Present

- Conducted literature review on the impact of indoor heat temperatures on human physiology to guide the design of smart monitoring solutions.
- Proposed and planned an Arduino-based system to measure temperature, humidity, and heart rate, integrating IoT concepts for real-time data tracking.
- Applied computer science skills to outline potential software integration for sensor data visualization and analysis.

Software Engineering Fellow at Headstarter AI / Team Leader | USA (Remote)

Jul 2024 – Sep 2024

- Built 5+ full-stack AI application prototypes, developed with modern technologies like **React**, **Next.js**, **OpenAI API** and more
- Led a team of 3 software engineering fellows, by delegating tasks and mentoring
- Received mentorship from engineers at **Amazon**, **Google**, and **Capital One**, as well as **Y Combinator**-backed startup founders, focusing on technical growth and adaptability

## PROJECTS

SyncUp | <https://syncup-chi.vercel.app/login>

Sep 2024

- Designed and deployed a networking platform (Tinder + LinkedIn hybrid) enabling users to efficiently discover coworkers
- Implemented a matching algorithm with optimized Firebase queries, supporting **800+ signups on waitlist**
- Tech Stack: **Next.js**, **Tailwind**, **Firebase**, **React.js**. Check on [GitHub](#)

Flashcards SaaS | [https://github.com/Yslaml/flashcards\\_saas](https://github.com/Yslaml/flashcards_saas)

Aug 2024

- Developed SaaS platform that generates flashcards using the **OpenAI API** and integrated a **secure Stripe payment system**
- Optimized data retrieval and state management for fast load times across user sessions.
- Tech Stack: **OpenAI API**, **Next.js** for back-end and **Material UI** for front-end

Pantry Tracker | <https://github.com/Yslaml/Pantry-Tracker>

Jul 2024

- Engineered full-stack inventory app with **real-time updates** using Firebase for efficient database queries
- Applied hash maps and set operations to quickly search, add, and manage pantry items
- Tech Stack: **Next.js**, **Firebase**, **React.js** and **Material UI**

## ACTIVITIES AND LEADERSHIP

Code Club | President | University of South Dakota

September 2024 – May 2025

- Organizes and led weekly sessions with **25+ students**, solving LeetCode-style problems and teaching **data structures and algorithms**
- Encourage collaboration by reviewing peers' solutions and discussing algorithmic trade-offs

## ADDITIONAL INFORMATION

- Languages: English (Full Proficiency), Russian (Bilingual), Turkish (Bilingual), Chinese (Basic), Turkmen (Native)