

# Jack Dreifus

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**Availability:** July 2025 – December 2025

## EDUCATION

**Northeastern University**, Khoury College of Computer Sciences

**Boston, MA**

*Candidate for a Bachelor of Science in Computer Science*

**Sep. 2023 – Expected May 2027**

**Honors:** Cumulative GPA: 4.0/4.0, Khoury College Dean's List (x3)

**Relevant Coursework:** Object-Oriented Design, Algorithms and Data, Programming in C++, Theory of Computation, Introduction to Databases, Mathematics of Data Models, Discrete Structures

## TECHNICAL KNOWLEDGE

**Languages:** Java, TypeScript, C++, HTML, CSS, SQL, Python

**Frameworks/Libraries:** React, Material-UI, Node.js, Express, Prisma, Flask, JUnit, Jest

**Technologies:** Git/GitHub, Microsoft 365, RESTful APIs, Docker, VSCode, IntelliJ, Linux

## EXPERIENCE

**Tech Lead & Full-Stack Developer** – Northeastern Electric Racing, *Boston, MA*

**Jan. 2024 - Present**

- Leading the finance page redesign for FinishLine, a full-stack product management dashboard developed in TypeScript, managing tickets and code reviews within a sub-team of a 100+ student developer organization.
- Built a "Change Requests" tab for all club-wide projects, displaying sections of various change request cards using React components, custom hooks, and Material-UI, enhancing the application's UI responsiveness and functionality.
- Developed backend endpoints for onboarding and recruitment using Express and Prisma queries, including checklist management services, controllers, and routes. Ensured reliability with Jest unit tests and integration testing via Postman.

**Peer Tutor** – Knack, *Boston, MA*

**Mar. 2024 - Dec. 2024**

- Mentored fellow students in theoretical mathematics and fundamental computer science courses, fostering their academic growth while honing leadership and communication abilities.

**Line Cook** – Big Tree Hospitality, *Scarborough, ME*

**May 2022 – Aug. 2024**

- Collaborated in a fast-paced kitchen, using Toast services, demonstrating teamwork, and efficient time management skills.

## PROJECTS

**RoomieSync** *First Place – 2-Day Club-Wide Hackathon*

**Dec. 2024**

- Led the development of the chore tracking and group creation/joining features for a roommate organization app aimed at simplifying shared living by managing expenses, alarms, and chores.
- Implemented backend endpoints with Python and Flask to handle CRUD operations, chore assignments, group creation/joining, and automated email reminders via Flask-Mail API.
- Designed and styled React components, including chore cards, various modals, and interactive features for chore assignment, alarm management, expense tracking, streamlining task distribution for household organization.

**Community Center Management System**

**June 2024**

- Co-developed a data management system in C++ to manage community center reservations, supporting three user roles—admin, client, and citizen—and enhancing event organization.
- Designed and implemented using OOP, with detailed planning via UML diagrams, Sequence diagrams, and CRC cards.
- Integrated state persistence to maintain reservation and user data across program sessions, ensuring data integrity.

**Three Trios**

**Nov. 2024**

- Developed a two-player card game in Java using OOP and MVC, featuring synchronized boards rendered via Java Swing.
- Implemented AI algorithms for human vs. machine gameplay, offering adjustable difficulty levels and various enhanced game modes using decorator patterns.

**Portfolio Website**

**Aug. 2024**

- Developed an interactive modern portfolio website using HTML, CSS, and JavaScript to showcase projects and provide insight into skills and personality.

## ACTIVITIES & INTERESTS

**Activities:** Northeastern Electric Racing, Northeastern Men's Lacrosse, Kappa Theta Pi Professional Fraternity

**Interests:** Culinary Arts, Classic Rock, Boston Sports, Film