

Alison Ryan

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[Website](#) | Availability: Jan. 2024 - June 2024 | [LinkedIn](#)

EDUCATION

Northeastern University | Khoury College of Computer Sciences | Boston, MA **Sep. 2022–Present**
Candidate for Bachelors of Science in Computer Science and Mathematics *Expected May 2026*
Honors: **GPA:** 3.97/4.0, Dean's List, Honors Program, National Merit Finalist
Coursework: Object-Oriented Design, Algorithms & Data Structures, Linear Algebra, Discrete Math
Activities: Club Running, Club Tennis, Generate Product Development

TECHNICAL SKILLS

Languages: Java, Racket, JavaScript, TypeScript, Swift, HTML, CSS
Frameworks/Tools: React.js, SwiftUI, Next.js, Express.js, Docker
Development: Git, Visual Studio Code, IntelliJ, XCode, Eclipse

EXPERIENCE

Northeastern University **Sep. 2023–Present**
Teaching Assistant for Fundamentals of Computer Science I *Boston, MA*

- Led a lab section of 40 students and prepared lesson plans for each week to review lecture content
- Hosted office hours 5 hours per week, offering students with valuable one-on-one attention and guidance
- Provided technical feedback on homework assignments and exams to improve code readability and functionality

Generate Product Development **Jan. 2023–Present**
Software Engineer *Boston, MA*

- Worked on agile software engineering teams to create websites for Northeastern startups Boxy and Voxeti
- Contributed to weekly code reviews and gave/received constructive feedback from peers on pull requests
- Collaborated with clients to tailor and produce deliverables that met their specifications

PROJECTS

Run Jam | *SwiftUI, Swift* | [Github](#) **Aug. 2023–Sep. 2023**

- Enabled users to select their favorite songs with the Spotify iOS SDK and played songs closest to their running cadence, increasing running performance by 8.5%
- Utilized the CoreMotion framework to record the user's running cadence within the last 5 seconds
- Dynamically updated the current playing song so that the user can change their preferences mid-run

Boxy | *TypeScript, Tailwind CSS, Docker, PostgreSQL, Next.js, Prisma, React.js* **Jan. 2023–May 2023**

- Collaborated on building a website from scratch that allows users to rent out storage space to college students
- Created infrastructure with Typescript to create/store/cancel reservations within the backend database
- Engineered an interactive and scalable web page to display user listings as well as to create a listing

Cadence Matcher | *Javascript, React.js, HTML, CSS* | [Github](#) **June 2023–July 2023**

- Leveraged the Spotify API to develop a web application that creates personalized running playlists
- Generated playlists tailored to user preferences in tempo and energy with up to 100 of their favorite songs
- Integrated an interactive and convenient user interface using React.js to streamline the user's experience

Voxeti | *GoLang, TypeScript, MongoDB, Tailwind CSS, React.js, Vitest* | In Progress **Aug. 2023–Present**

- Developing a website that connects people to 3D printers in their area so they can create without restriction
- Crafting an algorithm that calculates the cost of a print job based on its inputted STL file
- Handling user authentication and profiles for both Producers and Designers

INTERESTS

Running, Tennis, Guitar, Hiking, Succession, Football, Classic Rock