

Harrison Ryan Seeley

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Education

Northeastern University, Boston MA

December 2025

Bachelor of Science in Computer Engineering and Computer Science

GPA: 3.90

Dean's List: Spring 2022, Fall 2022, Fall 2023, Spring 2024

Courses: Object-Oriented Design, Circuits and Signals, Embedded Design, Computer Systems, Database Design, Fundamentals of Networks, Wireless Sensor Networks, Fundamentals of Electronics, Logic and Computation, Foundations of Data Science

Activities: Club Squash Captain, Northeastern Electric Racing

Technological Skills

Programming Languages: C#, Java, C++, Python, Windows PowerShell, Javascript, MATLAB, ACL2s

CAD and Electronics: SolidWorks, AutoCAD, Arduino, Intel DEI-SoC

Other: ServiceNOW, Azure Active Directory, Microsoft Active Directory, Microsoft Power Automate, RabbitMQ, Git

Relevant Experience

Symbotic, Wilmington MA

May 2024 – August 2024

Software Engineering Internship

<https://harrisonseeley.com/symbotic.html>

- Created a tool implemented in C#/.NET that takes millions of system logs, finds specific information relevant to the user, and exports the results to easy-to-read reports that reduces **hours** of tedious file searching to mere **seconds**.
- Fixed bugs/issues in the system software, learned the inner-workings of multiple services.
- Studied the asynchronous messaging between services using RabbitMQ.

Charles River Development, Burlington MA

January 2023 - June 2023

End User Services Information Technology Co-op

<https://harrisonseeley.com/crd.html>

- Created a custom workflow using ServiceNOW and Javascript to automatically create tickets for new hires and terminations.
- Supported employee hardware such as laptops, printers, peripherals, and other company issued devices.
- Administrator for employee accounts, mitigated access to resources such as servers, local software, websites, etc.
- Wrote numerous PowerShell scripts to automate administrative tasks such as locking inactive accounts, finding user locations, keeping track of expiring certificates on company servers, and more.

Student Employment

Northeastern University, Boston MA

January 2024 – Present

Teaching Assistant for Fundamentals of Computer Science 2

<https://harrisonseeley.com/ta.html>

- Hold office hours for students to ask questions about homework, exams, and other course content.
- Lead coding labs: give mini lectures, run through practice problems with the students, and administer quizzes.
- Grade homework, quizzes, and exams by checking for accuracy, coding conventions, and strong uses of course design principles.

Technical Projects

For more details on projects, visit <https://harrisonseeley.com/projects.html>

CourseTracker

Summer 2024

- C#/.NET application that tracks grades, assignments, courses, and overall GPA for students. Accounts are stored in XML files.
- Users can create accounts, add courses, enter/modify grades, and view information using a custom-built Windows Forms GUI.

NUPlanner

Spring 2024

- Java application to help the user manage their weekly schedule. A user can add, modify, and remove events from their calendar.
- A user can invite existing accounts to events, subsequently adding that event to the other accounts' calendars.
- Events can be auto scheduled, which adjusts the event's timeframe to the first available time slot for all attendees.
- The user interacts with the application using a GUI designed in Java Swing. Application follows SOLID software design principles.

Poker Bot

Fall 2022

- Wrote a Python program to determine a player's probability of hitting various poker hands given the current game state.
- Uses simulations to determine hand probabilities and the chance of having the best hand at the end of the game.

Storage Elevator

Spring 2022

- Built an automatic, small scale elevator with the intended purpose of moving storage units within a storage facility.
- Designed parts using SolidWorks, powered elevator cart with an Arduino wired/programmed DC motor.
- Manufactured parts with laser cutters and 3D printing.