

# Joseph Portas

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## EDUCATION

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

Boston, MA

*Bachelor of Science in Computer Science*

*September 2023 - May 2026*

**Cumulative GPA:** 3.7/4.0 | Dean's List Fall 2023

**Relevant Courses:** Graduate Level Algorithms, Object-Oriented Design, Computer Systems, Theory of Computation, Programming in C++, Accelerated Fundamentals of Computer Science II, Discrete Structures

**Extracurricular Activities:** Northeastern Recreational Climbing Club 2023-2024, Intramural Volleyball Team 2023

## COMPUTER KNOWLEDGE

**Programming Languages:** Java | C++ | Python | Racket | C | HTML | CSS | JavaScript | SQL | Assembly | LaTeX

**Applications:** Git | Visual Studio Code | IntelliJ IDEA | Microsoft Office Suite | Eclipse IDE

**Operating Systems:** Windows | macOS | Linux (Ubuntu, Terminal Usage, Nano)

## PROJECTS

**Stock Simulation**, Team Project

*May 2024 – July 2024*

- Implemented a Java program to analyze stock data over time through API queries, allowing the user to create and analyze portfolios with specific events, timeframes and automatic rebalancing
- Utilized object-oriented design principles and test-driven development to build multiple MVC patterns for readable and scalable code open to extension and user variety
- Pair programmed using GitHub while discussing design ideas, implementing logic and testing behavior

**File System Implementation**, Team Project

*November 2024 – December 2024*

- Created a FUSE-based file system in C capable of creating, deleting, reading, writing and renaming both files and directories
- Designed a scalable codebase by abstracting the behavior of inodes and blocks, utilizing these structures to quickly find files efficiently use disk-space
- Implemented a large-scale system able to handle files up to 500 KB and accept input through the command line or system interfaces

**Portfolio Website**, Solo Project

*September 2023 - December 2023*

- Developed a portfolio website for a fellow student using self-taught skills in HTML, CSS, and JavaScript
- Built a responsive website with multiple web pages, embedded pictures and videos, and animated features
- Managed schedule independently for timely completion while maintaining full control over design process

## EXPERIENCE

**Khoury College of Computer Sciences Teaching Assistant**, Boston, MA

*September 2024 - Present*

- Assist students, host office hours and grade assigned work in Fundamentals of Computer Science I
- Lead lab sessions with materials prepared prior, teaching students course content and facilitating group work
- Contact students struggling in the course and create lesson plans for individual tutoring

**Northeastern University Knack Peer Tutor**, Boston, MA

*January 2024 - Present*

- Tutor Northeastern students both in person and online in computer science and mathematical courses
- Reach out to students, schedule meetings, and prepare lesson plans to ensure students receive proper support
- Use Knack's Tutor Training and presentations to learn CRLA Level 1 and Level 2 concepts to apply in sessions

**Northeastern University Office of Journalism Office Assistant**, Boston, MA

*January 2024 – July 2024*

- Honed communication skills at the Office of Journalism's front desk by greeting visitors, answering questions and troubleshooting issues
- Supervised the journalism lab, maintaining cleanliness and safety and performing closing duties

## INTERESTS

Learning Turkish | Cello | Cooking | Rock Climbing | Volleyball | Chess | Video Games and Game Creation | Movies