

# Abdurkader Abdi

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## EDUCATION

### Boston University

Boston, MA

*Bachelor of Arts in Computer Science, Minor in Mathematics*

*Sep. 2022 – May 2026*

- Relevant coursework: Introduction to Computer Science I, Introduction to Computer Science II, Computer Architecture, Concepts of Programming Languages, Discrete Mathematics, Geometric Algorithms, Linear Algebra, Calculus, Statistics I

## TECHNICAL SKILLS

**Languages:** Python, Java, OCaml, HTML/CSS, JavaScript, C, Assembly

**Programming Concepts:** Object-Oriented Design, Functional Programming, Data Structures & Algorithms

**Developer Tools & Libraries:** Git, Linux, GitHub, VS Code, Jupyter, Spyder, IntelliJ, Eclipse, NumPy, Matplotlib

## EXPERIENCE & LEADERSHIP

### Consulting Extern

August 2023 – October 2023

*PricewaterhouseCoopers(PwC)*

*Remote*

- Utilized databases to provide tangible solutions to a nonprofit by conducting research and applying consulting frameworks to analyze and evaluate challenges faced by said nonprofit.
- Delivered presentation to a nonprofit by providing a 360 communication strategy that recommended a rebranding to optimize SEO and highlighted organizations and influencers to partner with.

### Programs Chair

April 2023 – Present

*Boston University National Society of Black Engineers(NSBE)*

*Boston, MA*

- Provide coding assistance with computer science related projects and homework while also fostering a conducive learning environment for NSBE members.
- Facilitate and support 100+ students by overseeing the planning and execution of diverse programs such as workshops, seminars, and conferences, that promote professional development, networking, and educational opportunities for NSBE members.

### Hackathon Ambassador

Oct. 2022 – Present

*BU Spark! Tech For Change/College of Data Science Research Activities*

*Boston, MA*

- Organize numerous university hackathons for 300+ students and work directly with sponsors and vendors to meet deadlines.
- Develop and plan workshops that introduce students to Figma, various web development concepts, and version control systems.
- Advance the field of Public Interest Technology and bridge the gap between the technological world and society's interests by incorporating tracks such as food access, education, and sustainability.

## PROJECTS

### Sudoku Solver | Java

November 2022

- Developed a Sudoku solver by implementing a recursive backtracking algorithm that optimized efficiency while taking advantage of the inherent constraints of the puzzle using Java.
- Used testing with expert difficulty puzzles from [Sudoku.com](https://www.sudoku.com) and successfully passed all edge cases.

### Gaussian Elimination Calculator | Python, NumPy

September 2023

- Leveraged Python and Numpy to create a program that solves linear and matrix equations by performing Gaussian elimination on matrices efficiently.

### Landing Page | HTML, CSS, Git

October 2023

- Designed and developed a landing page by using flexbox to create a responsive user interface.
- Utilized Git for version control and deployed the website on GitHub.

### Chatbot | Python, OpenAI API

August 2022 – July 2023

- Integrated the OpenAI API using Python to assist users with mosque-related information by enabling natural language understanding and generative AI.