

# Michael Krah

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## EDUCATION

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**Boston University** | Boston, MA

Expected May 2025

B.A. in Computer Science, Minor in Data Science

GPA: 4.00

National Merit Scholarship Recipient

Relevant Coursework:

Object-Oriented Programming, Discrete Mathematics, Linear Algebra, Probability in Computing, Fundamental Data Structures, Algorithm Analysis, Computer Graphics, Database Design, Software Engineering, Computer Systems

**Yarmouth High School** | Yarmouth, ME

2017 – 2021

Graduated Summa Cum Laude

## PROJECTS

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### Spotify Activity Visualizer

- Developed a web application to interactively display historical and real-time Spotify listening data, currently viewable on personal site
- Used Node.js, Express, and HTML to render webpage; fetched listening data using the Spotify API; stored historical data in a MongoDB database

### Covid Data Analysis

- Extracted Covid data from disparate sources and analyzed policy impact with a team of four; extracted data using Azure Data Factory; loaded data into Azure Synapse; analyzed and visualized data with PowerBI
- Presented a detailed report highlighting most important policies informed by data analysis

### Interactive Slide Puzzle Solver and Searcher Algorithm Visualizer

- Created an interactive slide puzzle game solvable with A\* or Greedy algorithms using the Python module Pygame
- Generated a visualization of the n-tree data structure resulting from the search algorithm

## EXPERIENCE

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**Department of Computer Science** | Boston University

Jan 2023 – Present

*Course Assistant and Grader*

- Led office hours, providing advice to groups of 10-15 students, addressing questions and coursework challenges
- Wrote rubrics, graded assignments, and provided comprehensive feedback for classes with 200 students
- Coordinated with other staff in meetings to maximize availability and address course challenges

**Locally Sauced** | Yarmouth, ME

May 2022 – Aug 2023

*Cook*

- Prepared meals and maintained an efficient workplace with a small team in a fast-paced work environment

**Hack4Impact Junior Development Team** | Boston University

2021

- Attended seminars and worked in groups to explore different software development tools and techniques
- Developed small-scale projects using HTML, JavaScript, React, and Flask

## SKILLS

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*Programming:* proficient in Python, Java, C, JavaScript

*Tools:* proficient in Git, UNIX, JSON, Node.js, HTML, CSS, SQL, Microsoft Azure

## PERSONAL

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*Honors:* National Merit Finalist, Dean's List (4 semesters), AP Scholar with Distinction

*Language Proficiency:* Fluent English and French, Intermediate German, Novice Spanish, American and Austrian Citizenship