

# Michael Krah

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## EDUCATION

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**Boston University** | Boston, MA

Expected May 2025

B.A. in Computer 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

**Yarmouth High School** | Yarmouth, ME

2017 – 2021

Graduated Summa Cum Laude

## PROJECTS

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### Personal Website

- Developed a personal website using Node.js and Express.js, creating the front-end with HTML and CSS
- Utilized AWS Lightsail to host the website

### Spotify Album Color Sorter

- Built a Python program that uses Spotify API and developer tools to sort a Spotify playlist by color
- Utilized PIL Python library and K-Means clustering technique to determine an image's dominant color as a sorting metric

### Interactive Slide Puzzle Solver and Searcher Algorithm Visualizer

- Coded an interactive slide puzzle game that can be solved with A\* or Greedy search algorithm with the Python module Pygame
- Created a visualization of the n-tree data structure that is generated by the search algorithm

## EXPERIENCE

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**Department of Computer Science** | Boston University

2023

*Grader*

- Graded homework and created homework rubrics for class with 200+ students.

**Locally Sauced** | Yarmouth, ME

Jun – Aug 2022

*Cook*

- Prepared meals and cleaned dishes in fast paced work environment
- Catered and delivered food for large-scale events
- Maintained timely operations in preparation of meals and kitchen sanitation

**Hack4Impact Junior Development Team** | Boston University

2021

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

## SKILLS

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*Programming:* proficient in Python, Java

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

## PERSONAL

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Honors: National Merit Finalist, Dean's List (3 semesters), AP Scholar with Distinction

Languages: Fluent English and French, Intermediate German, Novice Spanish, American and Austrian Citizenship