Katherine Zeng

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https://www.linkedin.com/in/k-zeng/ | https://github.com/kzeng24 | https://kzeng24.github.io/PersonalWebsite/ Availability: May – December 2022

EDUCATION

Northeastern University, Boston, MA

Sept. 2020 – Present

May 2024

Khoury College of Computer Sciences

Candidate for Bachelor of Science in Computer Science and Business Administration

GPA / 4.00 – Deans List, Deans Scholarship

Relevant Courses:

Object-Oriented Design, Algorithms and Data, Programming in C++, Database Design,

Fundamentals of Computer Science 1 and 2. Mathematics of Data Models.

Discrete Structures

Activities:

Honors:

Women in Technology, Computer Science Mentoring Organization, Eon Dance,

Asian Student Union (Mentor)

Harvard University, Cambridge, MA

July - Sept. 2019, July - Sept. 2020

Honors:

GPA

Relevant Courses:

Introduction to Web Programming Using JavaScript,

Great Ideas in Computer Science with Java

Winchester High School, Winchester, MA

Sept. 2016 – May 2020

Honors: **GPA**

/ 4.00 – National Honors Society, AP Scholar with Distinction

Relevant Courses:

Honors Web Design I, AP Computer Science Principles

Activities:

Technovation (Marketing Team Head), Red & Black Newspaper (Business Manager),

Public Speaking Club (President), High School Helpers Tutoring (Coordinator)

TECHNICAL KNOWLEDGE

Languages: Java, HTML, CSS, Bash, Python, JavaScript, C++, SQL, DrRacket

Software: IntelliJ, Visual Studio Code, Eclipse, Git, MySQL, Jupyter Notebook, LaTeX, Microsoft Office

Operating Systems: MacOS, Windows, Linux

PERSONAL AND ACADEMIC PROJECTS

Flood-It Aug. 2021

Built customizable strategy game using Java to transform a grid of different colors into one color within an allowed number of clicks.

- Incorporated Inheritance and Encapsulation from the Four Principles of Object-Oriented-Programming.
- Utilized the installation of Northeastern's jar library to represent images and simulate animations.

Mastermind July 2021

- Developed Java game prompting users to guess the correct order of randomly-generated colors through instant feedback before game ends.
- Applied S.O.L.I.D principles from Object-Oriented Design including Single-Responsibility, Open-Closed, Interface Segregation, and Dependency Inversion.
- Users interacted through single entry point on main function.

Image Processing June 2021

- Pair-programmed Java application centered around layered image manipulation.
- Included ability to display interactive GUI-based user interfaces with Java Swing, create images programmatically, import and export images, manipulate individual layers, and add image transformations.

FreeCell Card Game May 2021

- Created text-based Java program through IntelliJ that simulates a one-player card game.
- Implemented Model-View-Controller Framework.

INTERESTS