

Katherine Zeng

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Availability: May – December 2022

EDUCATION

Northeastern University, Boston, MA *Sept. 2020 - Present*
Khoury College of Computer Sciences *Expected May 2024*

Candidate for Bachelor of Science in Computer Science and Business Administration

Honors: GPA 3.61 / 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, Introduction to Mathematical Reasoning

Activities: 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 4.00 / 4.00

Relevant Courses: Introduction to Web Programming Using JavaScript, Great Ideas in CS with Java

Winchester High School, Winchester, MA *Sept. 2016 – May 2020*

Honors: GPA 4.01 / 4.00 – National Honors Society, AP Scholar with Distinction

Activities: Technovation (Marketing Team Head), Red & Black Newspaper (Business Manager), Public Speaking Club (President), High School Helpers Tutoring (Coordinator)

TECHNICAL SKILLS

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

Software/Systems: IntelliJ | Visual Studio Code | LaTeX | Eclipse | Git | MySQL | Jupyter Notebook | Linux

PERSONAL AND ACADEMIC PROJECTS

Personal Website | *HTML, CSS, JavaScript* *Jan. 2022*

- Designed responsive and resizable portfolio website displaying code projects, skills, and photography using HTML, CSS, and JavaScript.

Flood-It | *Java* *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 Northeastern's jar library to represent graphics and simulate animations.

Mastermind | *Java* *July 2021*

- Developed Java game prompting users to decipher randomly-generated color key 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.

Image Processing | *Java (Java Swing)* *June 2021*

- Pair-programmed interactive Java GUI application centered around layered image manipulation.
- Leveraged the Model, View, Controller architectural pattern to create images programmatically, import and export images, manipulate individual layers, and add image transformations.
- Implemented JUnit testing framework to ensure code functionality and robustness.

VOLUNTEER EXPERIENCE

Farm Education Assistant | *Wright Locke Farm* *July – Aug. 2017, July – Aug. 2018, July – Aug. 2019*

- Delivered efficient assistance to farm educators in planning lessons and daily activities for summer camp.
- Provided reception service by responding to inquiries and guided families with general information.

FOREIGN LANGUAGES AND INTERESTS

Languages: Mandarin (Proficient), Spanish (Limited Proficiency)

Interests: Badminton, Archery, Painting, Photography, Chinese Classical Dance, Swimming, and Piano