Matthew W. Xie

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Availability: May – August 2023

EDUCATION

Northeastern University, Boston, MA | **GPA**: 3.7/4.0 *September 2020 – Present*
Khoury College of Computer Sciences | Honors Program
- Candidate for a Bachelor of Science in Computer Science
- Expected Graduation: **May 2024**

Honors: Northeastern Honors Scholarship, Dean's List at Khoury College

TECHNICAL KNOWLEDGE

Languages:	Java, Typescript, JavaScript, HTML, CSS, SQL, Python, Racket, C, R, Assembly
Operating Systems:	Windows, MacOS, Linux (Ubuntu)
Technologies:	Git, Node.js, Cucumber, Jenkins, Appium, WebdriverIO, Charles, Photoshop, After Effects

WORK EXPERIENCE

QA Co-op (Skillz) | San Francisco, CA *January – July 2022*
- Planned test coverage and implemented end to end UI tests for the Skillz "Leagues" feature
- Maintained 10% failure tolerance in test automation frameworks
- Completed tech initiatives including framework upgrades and better error classification for failing tests
- Collaborated with individuals across disciplines and teams to meet release deliverables

Software Engineer Intern (Amlogic) | Santa Clara, CA *July – August 2021*
- Converted an Excel sheet to a C header file using a Python Script and a .db file to an excel file with a SQL script for digital TV SoC (System-on-Chip) performance testing
- Evaluated terrestrial and cable demodulator performance of newly developed company TVs by conducting field tests around the Midwest

PROJECTS - *All code available upon request*

Trivia Game | HTML, CSS, JavaScript *October 2022*
- Created an interactive trivia UI where users are tasked with correctly answering questions before running out of lives
- Gained experience fetching data from online APIs

Personal Website | HTML, CSS *November 2021*
- Built a personal website that introduces myself, links my resume and contact info, and lists my projects
- Visually showcased the functionality of many personal projects (including the ones mentioned below)

Image Processing Software | Java *June 2021*
- Collaboratively created an image processing software that allowed users to upload images onto layers and apply color transformations (sepia, greyscale) and filtering (blur, sharpen)
- Enabled all image or image layers to be uploaded or saved as various file types (jpg, png, ppm)
- Designed an elegant user interface to support the above functionality along with other special features: setting the visibility of layers, applying mosaic effects to images, and logging all user action

Maze | Java *April 2021*
- Built a program that generated unique mazes using Kruskal's Algorithm
- Enabled users to either solve the mazes interactively, or visually see the solution via a BFS/DFS animation

RELEVANT COURSEWORK

Algorithms and Data, Objected-Oriented Design, Theory of Computation, Computer Systems, Human Computer Interaction

INTERESTS

Gaming, Running, Music, Dancing, Editing, Personal Development, UI/UX Design