Olivia Nicole B. Stepper

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Available July - December 2024

EDUCATION

Northeastern University, *Khoury College of Computer Science*   September 2022 - Present
Candidate for a Bachelor of Science in Computer Science   Expected Graduation: May 2026
GPA: 3.9/4.0
Awards: Northeastern Honors Program, Northeastern University Honors Scholarship, Dean's List
Relevant Coursework: Discrete Math, Mathematics of Data Models, Object-Oriented Design, Database Design, Algorithms and Data, Computer Systems, Logic and Computation

Nyack High School   June 2022
Advanced Regents Diploma   Nyack, NY

PROJECTS - *Code available upon request*

Reversi   November 2023
- Constructed a playable two-player game of Reversi in Java that followed an MVC framework
- Designed features including a Swing GUI, an optional AI player with varying levels of difficulty, and visible hints like points and possible moves that can be toggled with keyboard actions
- Collaborated with peers as "clients" and "providers" to implement foreign front-end code with the back-end logic using adapters

Klondike   October 2023
- Wrote a playable game of Klondike Solitaire in Java which followed an MVC framework with a text-based view
- Created three different versions of the game, each with customizable aspects through command line arguments

Maze   May 2023
- Created randomly generated, single-solution maze in Java with different search path demonstrations specified through keyboard actions

Wordle   November 2022
- Constructed the NYT game Wordle in Racket with identical logic and front-end experience

Stripe Green Website   July 2020
- Built a website using HTML, JavaScript, and CSS to showcase a passion project that advocates for sustainable living

SUMMER EXPERIENCE

Dialogue of Civilizations | *Climate Science, Policy and Engineering in Emerging Economies, India / Nepal*   July 2023
- Researched the importance and implementation of climate resiliency in creating robust ecosystems
- Focused on mitigation and adaptation to create comprehensive plans for risk management and disaster control in the developing world using data manipulation in CMIP6 models and infrastructure engineering

Sustainability and Data Sciences Lab | *Research Assistant, Remote*   May 2023
- Collaborated with PhD students in their NASA climate resiliency research projects including intensive manipulation of climate data models to produce temperature and precipitation projections

Brown University Pre-College Program | *Learning MATLAB by Digital Simulation of a 4-Rover Game, Remote*   July 2021
- Coordinated closely with the professor on machine learning concepts by creating training functions in MATLAB

Girls Who Code Summer ImmersionProgram | *Learning Basic Principles of Computer Science, Remote*   July 2020
- Established introductory computer science and programming skills through real-world projects and guest lectures from industry professionals
- Developed a final project, which included building a website to showcase a personal passion
- Presented to a panel of prominent women in the industry

Columbia College Summer Immersion Pre-College Program | *Coding in Java, NY*   July 2019
- Mastered the fundamentals of Java programming through hands-on exercises and projects

SKILLS AND INTERESTS

Languages: Java, SQL, Bash, HTML, CSS, C, JavaScript, Python, Racket, and MATLAB
OS: Linux, Mac
Software: Git, Eclipse, IntelliJ, MySQL Workbench, Visual Studio Code, and Xcode
Interests: Personal Finance, Sustainability, Word Games, Novice Bass Fishing, and Contemporary Short Stories