

# Henry Barthelemy

Available: June – August 2023 | Pronouns: he/they

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## Education:

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**Northeastern University**, Boston, MA September 2021 – Present

Khoury College of Computer Sciences

Candidate for Bachelor of Science in Computer Science and Mathematics, Expected April 2025

GPA/Honors: 3.59/4.00

Relevant Courses: Graduate Algorithms\* | Object Oriented Design | Linear Algebra | Theory of Computation\* | Differential Equations | Multivariable Calculus  
(\* notes course in progress)

**The Frederick Gunn School**, Washington, CT August 2017 – May 2021

GPA: 3.93/4.00 unweighted

Honors/Awards: Mathematics Award, Captain of First Robotics Team, Captain of Varsity Ski

## Technical Knowledge:

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**Languages:** Java, Python, HTML, CSS, ACL2s, Lean, Scala, TypeScript (ordered by proficiency)

**Systems:** Windows, macOS, Ubuntu Linux

**Technologies/IDEs:** Eclipse, Git, Visual Studio Code, React.js, Unity, Bootstrap

## Related Work Experience:

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**Teaching Assistant for Fundamentals of Computer Science 2** May 2022 – Present

*Khoury College of Computer Science at Northeastern University, Boston, MA*

- Holding office hours, leading exam review sessions, and grading exams and assignments
- Providing helpful feedback to students by reviewing their code and explaining core class concepts such as utilizing object-oriented design, abstracting code, and analyzing algorithms

**CRLA Certified Peer Tutor for Undergraduate Students** January 2022 – Present

*Northeastern University Peer Tutoring Program, Boston, MA*

- Trained and certified in tutoring following guidelines of the College of Reading and Learning Association
- Providing tutoring in one on one and in larger review sessions for Linear Algebra and Fundamentals of Computer Science to undergraduate Northeastern students

**Assistant Director and Head Computer Science Instructor** July 2019 – August 2021

*Robotics and Beyond, New Milford, CT*

- Prepared lesson plans and taught groups of 5-15 students aged 8-15 in various Computer Science courses including Arduino, Python, and Java
- Developed schedules for camp, coordinated between instructors, administrators, and parents

## Personal Projects:

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**Image Processing** – Java, Java Swing, AWT Library, IntelliJ (available upon request) June 2022

- Created an app which uses Model-View-Controller setup and allows users to edit images they import through various commands. Includes options to save and import with PPM, BMP, JPG, and PNG

**Seam Carver** – Java, Eclipse IDE (available upon request) February 2022

- Developed an image editing software that can resize photos using a liquid rescaling algorithm that incorporates Dijkstra's algorithm. Algorithm rescales image by taking out seams of pixels that are of least importance

**Personal Website** – Bootstrap, CSS, HTML, Visual Studio Code January 2022

- Developed Personal Website using Bootstrap for seamless front-end design on multiple devices
- Hosted using GitHub at <https://henrybarthelemy.github.io/>

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**Interests/Other Skills:** Trilingual (English/French/Spanish), Northeastern (NU) Math Club, NU Competitive Programming, NU Cheese Club, Guitar/Piano