Henry Barthelemy

Available: January – August 2023 | Pronouns: he/they
GitHub: https://github.com/henrybarthelemy | LinkedIn: www.linkedin.com/in/henry-barthelemy
Local: Boston, MA | (914) 960-0247 | barthelemy.h@northeastern.edu

Education:

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:

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:

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:

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/

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