

# Ella Demarest

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Internship/Co-op Availability: Late August – December 2025

Portfolio: [ellademarestportfolio.netlify.app/](https://ellademarestportfolio.netlify.app/) | LinkedIn: [linkedin.com/in/ella-demarest-b48553189/](https://linkedin.com/in/ella-demarest-b48553189/)

## EDUCATION

**Northeastern University**, Boston, MA Aug. 2022 – Present  
**Khoury College of Computer Sciences** May 2026  
*Candidate for a Bachelor of Science in Computer Science* GPA: 3.83/4.0  
**Computer Science Concentration:** Human-Centered Computing  
**Honors:** Dean's List | Honors Program/Scholarship

**Relevant Coursework:** Discrete Structures | Algorithms and Data | Object Oriented Design | Mobile Application Development | Fund. of Software Engineering | Web Dev. | Human Computer Interaction | Empirical Research Methods | Found. of Data Science | Computer Systems | Database Design | User Experience Design | Found. of Cybersecurity | Digital Design

## TECHNICAL KNOWLEDGE AND CERTIFICATIONS

**Languages:** Java | Python | Swift | TypeScript | Racket | Lua | C# | C | Assembly | HTML | CSS | SQL | LaTeX | PHP | SystemVerilog

**APIs, Frameworks, & Libraries:** React | Firebase | Postman | Jest | Laravel | Blade

**Certifications:** Oracle Certified Associate Java SE 8 Programmer | Certified Veeva CRM & Vault Associate

**Applications/Other:** Adobe Creative Suite | Blender | Substance Painter 3D | Figma | Axure | IntelliJ IDEA | Eclipse | Google Web Designer | Xilinx Vivado | XCode | Node.js | MongoDB

## WORK EXPERIENCE

- Regeneron**, Armonk, NY | *Development Services & Operational Excellence Intern* May 2025 – Aug. 2025
- Analyze AI software metrics to estimate cost savings
  - Evaluate AI software utilization and develop recommendations to improve efficiencies
  - Write program to compare and evaluate Standard Operating Procedures from different sources (eg., Regeneron and an acquired company)
- IoT Open Innovation Lab**, Northeastern University, Boston, MA | *Research Assistant* Oct. 2024 – Present
- Conceptual development and UI design for an AI-driven app that provides a virtual world for researchers to meet and collaborate without the time investment of standard networking (LinkedIn searches, emails, attending talks, etc.)
  - Developed the system that auto-generates user profiles based on a researcher's LinkedIn by using a custom scraping program as well as API calls to OpenAI
  - Created the image generation in the app by utilizing API calls to several Stable Diffusion models tweaked to suit the style of the app: including a program that extracts the user's LinkedIn profile picture and uses a custom Postman API to properly cartoonify the photo into an avatar in the app, as well as a program that takes an inputted setting from the app and creates an AI-generated image background for the relevant screens
- Vue Health**, Boston, MA | *Digital Co-op, Freelance Contractor* Jan. 2024 – Oct. 2024
- Built custom Wordpress themes using PHP, HTML, and Tailwind CSS linked with Advanced Custom Fields
  - Created an Interactive Visual Aid utilizing Nunjucks and Laravel Blade templating engines, PHP, Tailwind CSS/HTML, and Javascript
  - Used Google Web Designer to create animated, dynamic ads for a client
  - Designed emails with HTML/CSS for clients and tested in Veeva CRM
- Code4Community**, Boston, MA | *UI Designer* Jan. 2023 – Sep. 2023
- Designed software for 77 employee, \$2 million yearly revenue non-profit
  - Built prototype and mock-ups for non-profit payroll software
  - Collaborated on prototype and mock-ups for software tracking non-profit funding sources
- MistyPhantom Designs**, San Diego, CA | *Freelance Artist* Mar. 2017 – Present
- Produced art, UI, and graphic design for front-page and ~100 other Roblox games including Mining Simulator and Ghost Simulator (merchandise sold at Walmart and Amazon)
  - Led graphic design for two games in development (equity interest)