Ella Demarest

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Internship/Co-op Availability: Full-time Late August – December 2025
Ella Demarest Portfolio | LinkedIn

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 (Selected) Coursework: Discrete Structures | Algorithms and Data | OOD | Mobile App Dev | Fund of Software Engin | Web Dev | Database Design | Data Science | Comp Systems | Human Comp Interaction

TECHNICAL KNOWLEDGE AND CERTIFICATIONS

Languages: Java | Python | Javascript | TypeScript | C | Lua | Swift | Racket | 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: Node.js | XCode | MongoDB | Xilinx Vivado | Adobe Creative Suite | Blender | Substance Painter 3D | Figma | Axure | IntelliJ IDEA | Eclipse | Google Web Designer

RECENT (SELECTED) PROJECTS

Pokemon Sleep Research Hub (Javascript)   Boston, MA | Feb. 2025
- A full-stack web community forum built in React allowing Pokemon Sleep players to create, like, comment, and filter posts by tags
- Allows users to create a personalized profile, including their trainer code, which is displayed on the 'Friend Finder' billboard that they can choose to hide, show to registered users, or leave public

Power Rock Fitness (Swift)   Boston, MA | Nov. 2024
- An app that allows bands to use in-app tools to create workouts they endorse and fans to browse a personalized library of workouts with accountability features
- Uses Firebase for authentication of the two user types (fans and stars) and the workout library

WORK EXPERIENCE

Regeneron, Armonk, NY | *Development Services & Operational Excellence Intern*   May 2025 – Aug. 2025
- Analyze AI software metrics to estimate cost savings, evaluate software utilization, and recommend efficiency improvements
- Write program to compare and evaluate multiple Standard Operating Procedures

IoT Open Innovation Lab, Northeastern University, Boston, MA | *Research Assistant*   Oct. 2024 – Present
- Developed the conversation engine for a digital twin networking app using an LLM orchestration framework with agents for scenario generation and turn-based conversations
- 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
- Iterative wireframing and game design

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
- Designed emails with HTML/CSS for clients and tested in Veeva CRM

Code4Community, Boston, MA | *UI Designer*   Jan. 2023 – Sep. 2023
- Built prototypes and mock-ups of payroll software for 77 employee, $2 million yearly revenue non-profit
- Collaborated on prototype and mock-ups for software tracking non-profit funding sources