

Ella Demarest

(858) 222-7877 | Local: Boston, MA | Permanent: San Diego, CA | ellajdemarest@gmail.com
Part-time Availability: Jan 2026 (due to reduced courseload); Full-time Availability: May 2026
[Ella Demarest Portfolio](#) | [LinkedIn](#)

EDUCATION

Northeastern University , Boston, MA	Aug. 2022 – Present
Khoury College of Computer Sciences	May 2026
<i>Candidate for a Bachelor of Science in Computer Science</i>	GPA: 3.84/4.0
Computer Science Concentration: Human-Centered Computing	
Honors: Dean's List Honors Program/Scholarship	

TECHNICAL KNOWLEDGE AND CERTIFICATIONS

Languages: Python | TypeScript | Javascript | Java | 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 | Tableau | Dremio | XCode | MongoDB | PostgreSQL | Xilinx Vivado | Adobe Creative Suite | Blender | Substance Painter 3D | Figma | Axure | IntelliJ IDEA | Eclipse | Google Web Designer

WORK EXPERIENCE

Remix Therapeutics , Watertown, MA <i>Bioinformatics Co-op</i>	Aug. 2025 – Dec. 2025
<ul style="list-style-type: none">• Build software to query and analyze NGS data to draw actionable biological insights• Develop and assess novel approaches to analyzing data and develop data visualization dashboards• Create a Slack-integrated AI chatbot using NLP techniques and predictive analytics to process lab data and deliver evidence-based recommendations to scientific teams	
Regeneron , Armonk, NY <i>Development Services & Operational Excellence Intern</i>	May 2025 – Aug. 2025
<ul style="list-style-type: none">• Engineered a centralized data repository by integrating multiple project-tracking sources through APIs using advanced ETL pipelines for data cleaning, transformation, and storage. Built a full-stack React (Typescript) + Python (FastAPI) application for real-time data synchronization, showcasing dynamic Tableau dashboards with high-level statistics, trends, and automated reporting in a modular, API-driven design• Developed a program to automate role extraction from procedural documents using advanced NLP (spaCy), custom heuristics, and regex parsing, with contextual classification (active/passive handoff/collaborative), AI-driven deduplication and normalization, and an interactive CLI for customizable inputs, exclusion keywords, and dynamic result refinement• Designed and implemented a Python CLI tool to identify and report document quality issues (obsolete references, missing metadata, broken hyperlinks), cross-referencing document metadata, version history, and supporting relationships using Excel indices for comprehensive error detection and streamlined, repeatable reporting workflows	
IoT Open Innovation Lab , Northeastern University, Boston, MA <i>Research Assistant</i>	Oct. 2024 – Present
<ul style="list-style-type: none">• Engineered a conversational engine for a digital twin networking app using an LLM orchestration framework, enabling dynamic scenario generation and turn-based interactions• Built a custom scraping program to extract LinkedIn data and transform it into detailed user profiles, integrating OpenAI APIs to enrich and structure the data	
Vue Health , Boston, MA <i>Digital Co-op, Freelance Contractor</i>	Jan. 2024 – Oct. 2024
<ul style="list-style-type: none">• Built custom Wordpress themes using PHP, HTML, and Tailwind linked with Advanced Custom Fields• Created an Interactive Visual Aid utilizing PHP and Javascript• Designed emails with HTML/CSS for clients and tested in Veeva CRM	