

# Livia Cutra

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## EDUCATION

### Northeastern University, Boston, MA

Expected Graduation: Spring 2027

Candidate for a Bachelor of Science in Computer Science and Design

GPA: 3.7/4.0

**Relevant Coursework:** Object-Oriented Design, Algorithms and Data Structures, Human-Computer Interaction, Prototyping with Code, Information Visualization, Logic and Computation, Cornell ML Foundations, Linear Algebra

**Associations:** Cornell AI Fellow | HackBeaniot Core Team | Rewriting The Code | CodePath | AIForImpact

## EXPERIENCE & LEADERSHIP

### Ultimate Kronos Group (UKG)

September 2025 - December 2025

Software Engineer Intern

- Developed a Code Analysis Reporting Tool (CART) replacing Bitbucket workflows with GitHub and SonarQube, improving coverage tracking for **2 enterprise repositories** and reducing manual compliance checks by **40%**.
- Implemented MongoDB for historical coverage data, reducing retrieval time from **hours** to under **10 seconds**.
- Enhanced CART UI and backend logic to filter GitHub pull requests by author and date, increasing reporting accuracy by **30%** and supporting Agile teams in meeting Definition of Done (DoD) and SOC2 requirements.

### Forge Product Lab

September 2025 - Present

Software Engineer & Website Developer

- Implemented Forge's homepage using React, Tailwind CSS, and Vite, delivering a responsive, accessible UI for **1,200+ monthly users** while improving page-load speed by 25% and ensuring cross-browser compatibility.
- Built the frontend for **Codescape**, a developer tool that visualizes codebases as an **interactive 3D city**, implementing dynamic scene rendering, camera controls, and real-time updates from structured JSON data.

### Women in the Enterprise of Science and Technology

May 2025 - Present

President of the Northeastern Chapter

- Scaled the organization from **5** to **45+ active members** in one semester by launching peer mentorship programs and organizing **3 professional conferences** focused on women in all disciplines of STEM.
- Led budgeting and career-readiness initiatives, coordinating networking events for **50+ participants** and delivering interview prep and leadership workshops while managing funding and organizational operations.

### Khoury College of Computer Sciences

August 2024 - Present

Teaching Assistant for Graduate Algorithms & Data Structures

- Led interactive office hours and grading for **200+ students**, simplifying recursion, graph traversal, and Big-O through live coding, visual aids, and collaborative problem-solving to build strong algorithmic intuition.
- Delivered **30+ one-on-one tutoring sessions** focused on trees, hash maps, and sorting algorithms, using real-world examples and practice to boost student confidence and performance across varied learning styles.

## PROJECTS

### Allstate Auto Claims Severity

September 2025 - December 2025

BreakThroughTech AI Fellow | Python, Pandas, Scikit-learn

- Engineered features and trained regression models on **188k records**, cutting **mean absolute error** by **22%** and significantly improving Allstate's claim-severity predictions and resource-allocation efficiency.
- Built and compared multiple ML pipelines (linear & tree-based) after cleaning and modeling data, achieving **normalized RMSE 0.35** and delivering actionable insights for risk-management and decision-making teams.

### LivsLoops

July 2025 - September 2025

My Small Business Website | React, Node.js

- Developed and deployed a full-stack e-commerce site for my handmade crochet products, driving **45 new customer conversions** and **boosting media engagement** by **150%** in the first quarter.
- Reduced load time **by 40%** and increased **purchases** by **30%**, improving overall user experience and retention.

## SKILLS

**Languages/ Frameworks:** Python, Java, Node.js, TypeScript, JavaScript, HTML/CSS, React, Swift, C#

**Tools:** Git, MongoDB, Vite, Jupyter, Jenkins, Jira, SonarQube, VSCode, IntelliJ, Eclipse, Figma, Unity, Excel