ELLA CUTLER

Chicago, IL · 773-580-2584 · ellacutler2025@u.northwestern.edu

https://www.ellacutler.com · https://github.com/ellacutler · https://linkedin.com/in/ellacutler

EDUCATION

Northwestern University, Evanston, IL   **June 2025**

Bachelor of Arts, Computer Science and Sociology, Segal Design Certificate
- Relevant Coursework: Design, Thinking, and Research (HCI Lab), Introductions to Systems, Data Structures, Discrete Mathematics for Computer Science, Social Network Analysis
- Teaching assistant for Human Computer Interaction Course

PROFESSIONAL EXPERIENCE

Schneider Electric   **June 2023 – August 2023**

Software Developer Intern   *Chicago, IL*
- Refactored 1100 unit tests for Schneider Electric broadband network design tool.
- Created a repeating text tool for a MDU schematic builder using XAML and WPF design patterns with support from randomized testing.
- Debugged data and usability issues in a 300,000 line **.Net** application through editing source code, **XML** configurations, and **ArcGIS** data field auto updaters.

RESEARCH

DTR Lab   **April 2023 – Present**

Research Lead
- Conducted user tests and heuristic evaluations in a Human Computer Interraction program for a prototype assisting CS-1 learners with their metacognitive skills and continuously integrated design feedback from multiple actors.
- Created conceptual understanding of interactions between metacognition, belief structures, and achievement for students in CS-1 and linked conceptual approach with a tool to assist students
- Managed a research team in sprint planning, risk assessment, and long-term study design using Agile methodologies and design arguments.

TIILT Lab   **September 2022 – January 2023**

Research Assistant
- Used MicroPython to make a light-reactive timer for MicroBit Embedded System.

EXTRACURRICULARS

BadHacks 2023 (Hackathon): Awarded "Best Executed Project"   **February 2023**
- Created cloud functions to parse input data from Firebase Realtime Database, including implementing Open AI asynchronous requests.
- Assisted with the front-end design process and algorithm design for creating user matches.

Northwestern IEEE   **January 2023 – March 2023**

Frontend Developer   *Evanston, IL*
- Using **React** to create components to display prescription information parsed from JSON inputs derived from a **Firebase** database and authenticate users.

Northwestern University Dance Marathon   **June 2022 – December 2022**

Frontend Developer   *Evanston, IL*
- Used **React** and Firebase to create a web app login page with Google Authentication.
- Worked under an Agile Framework and collaborated with other members to display information about NUDM events on an IOS app.

SKILLS

Tools: Visual Studio, Git, AWS, Jira, Figma, Firebase
Languages: C#, C++, JavaScript, Python, SQL, XAML, HTML/CSS
Interests: Running (2019 Chicago Marathon Finisher), Hiking, Cycling (2019 Triathlon Finisher)