

ELLA CUTLER

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EDUCATION

Northwestern University, Evanston, IL

June 2025

Bachelor of Arts, Computer Science and Sociology

GPA 3.6/4.0

- Relevant Coursework: Design, Thinking, and Research (HCI Lab), Introductions to Systems, Data Structures, Discrete Mathematics for Computer Science, Social Network Analysis
- Dean's list if applicable

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 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 for a prototype assisting CS-1 learners with their metacognitive skills.
- Created conceptual understanding of interactions between metacognition, belief structures, and achievement for students in CS-1.

THILT 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)