

ELLA CUTLER

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EDUCATION

Northwestern University, Evanston, IL

September 2021-June 2025

Bachelor of Arts, Computer Science, Segal Design Certificate

- Relevant Coursework: Design, Thinking, and Research (HCI Lab), Discrete Mathematics, Social Network Analysis, Machine Learning
- Teaching assistant for Human Computer Interaction Course

PROFESSIONAL EXPERIENCE

Schneider Electric

June 2023 – Present

Software Developer Intern

- Refactored 1100 unit tests for Schneider Electric broadband network design tool designed in C# and .Net., increasing code coverage by 30%
- Created a production-build repeating text tool for a Multi-Dwelling Unit schematic builder using **XAML** and **Caliburn Micro** with WPF and MVVM design patterns while creating 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, improving user satisfaction.

RESEARCH

DTR Lab

April 2023 – Present

Research Lead

- Conducted user tests and heuristic evaluations in a Human Computer Interaction 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.
- Received qualitative feedback from user tests that showed a significant change in understanding about perceived self-efficacy and learning potential.
- Managed a research team in sprint planning, risk assessment, and long-term study design using Agile methodologies and design arguments.

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

- Used **React** to create components to display prescription information parsed from JSON inputs derived from a **Firebase** database and authenticate users.
- Used **React** and **Firebase** to create a web app login page with Google Authentication.

SKILLS

Tools: Visual Studio, Git, AWS, Jira, Figma, Firebase, Tailwind

Languages: C#, C++, JavaScript, Python, XAML, HTML/CSS, React,

Interests: Running (2019 Chicago Marathon Finisher), Hiking, Cycling (2019 Triathlon Finisher), Rock Climbing