

Belen Tesfaye

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EDUCATION

Northeastern University, Boston, MA

September 2021 - April 2025

Candidate for Bachelor of Science in Computer Science and Behavioral Neuroscience

- Khoury College of Computer Sciences, Honors Program
- Northeastern University Global Quest Program at American College of Thessaloniki, Spring 2022

Activities: Alpha Phi Omega, Color Stack, Northeastern Black Engineering Student Society, Sisters in Solidarity

Relevant and Ongoing Course Work: Object- Oriented Design, Data Based Design, Fundamentals of Computer Science I & II, Calculus and Differential Equations, Statistics in Psychological Research, Fundamentals of Software Engineering (IP), Algorithms and Data Structure (IP) Human Interactions (IP)

SKILLS

Computer Languages: Java, JavaScript/Typescript, ReactJS, Python, and C++ (CLion), SQL (MySQL), CSS, HTML

Software Systems: Figma, JASP

Version Control and Computing Platform: Git; GUI

Language: Amharic (native speaker)

Microsoft Office Suite: Excel, Word, Outlook

EXPERIENCE

D'Amore-McKim Business School – Entrepreneurship and Innovation, Remote (Boston, MA)

Research Assistant

April 2023 – March 2024

- Contribute to the development of large data sets that entail details of products under development by biotech startup.
- Using established methodology and training provided by advising professor to gather, input, and clean data.
- Employed Excel spreadsheets to encode and organize data effectively, ensuring accuracy and accessibility for analysis and interpretation.

Beth Israel Deaconess Medical Central Location, Remote (Boston, MA)

Neuroimaging Research Assistant Co-op

June 2023 - September 2023

- Investigated the application of neuroimaging techniques in clinical research, examining how they can provide insights into diseases such as cerebral amyloid angiopathy, multiple sclerosis, cancer, and diabetes; findings supported the development of targeted diagnostic and therapeutic approaches.
- Utilized computer-based image analysis using python, ITK-SNAP, MATLAB, Monailabel, and 3D Slicer.

ACADEMIC PROJECTS

CoveyTown Virtual Shop

CS 4350 (Foundation to Software Engineering)

- Developed UI for login and sign-up screens for the new CoveyTown feature, as well as the virtual shop and inventory UI.
- Implemented login and sign-up interfaces into a functional product by creating APIs and connecting them to the backend services.
- Utilized spritesheets to create animation frames and JSON files for sprite visualization of CoveyTown pets and effects.
- **Utilized:** Typescript, React.js, Phaser, Texturepack, MongoDB, Version Control (Git)

HeritageHub

IS 4300 (Human-Computer Interaction)

- Designed UI prototypes in Figma, ensuring visual representations of the product.
- Integrated generative AI for an AI chatbox feature to assist users with heritage-related queries and storytelling.
- Applied custom CSS for aesthetic consistency and conducted user experience research for interface enhancements.
- **Utilized:** Typescript, Javascript, React.js, Firebase, OpenAI, Version Control (Git)

Reversi Game

CS 3500 (Object Oriented Design)

- Developed dynamic game interface using Java, applying MVC architecture and object-oriented principles.
- Implemented human and AI player types with strategy patterns for adaptive gameplay.
- Leveraged adapter and observer design patterns for enhanced modularity.
- **Utilized:** Java, GUI, Version Control (Git), Object-Oriented Design principles