
MATTHEW SELTZER

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EDUCATION

University of Illinois at Urbana-Champaign

GPA: 3.77/4.00

Bachelor of Science in Computer Engineering & Minor in Linguistics

August 2020-May 2024

- **Honors & Awards:** Dean's List (Spring 2021, Fall 2021)
- **Relevant Coursework:** Introduction to Electronics, Discrete Structures, Data Structures, Analog Signal Processing, Digital Signal Processing, Digital Systems Laboratory, Computer Systems Engineering

PROJECT EXPERIENCE

Fishbowl: Multiplayer Game

- Developed multiplayer game for iOS devices
- Written in Swift using UIKit, SwiftUI, Firebase, and CloudKit frameworks

Reddit Hyperlink Graph Network

- Developed a graph data structure containing information about how subreddits are linked to each other using C++
- Worked with a team to execute a BFS traversal, find the shortest path between nodes, and produce a valid graph coloring

PROFESSIONAL EXPERIENCE

S&C Electric Company

Chicago, IL

Software Engineering Intern

June 2022-August 2022

- Implemented algorithms to accomplish fault location, isolation, and service restoration on the electrical grid
- Collaborated on a team to write code in C++ for an embedded software platform

The MacMentor

Deerfield, IL

Summer Assistant

June 2021-August 2021

- Applied problem solving skills to find solutions for issues involving Apple devices and other technical systems
- Made recommendations for the purchasing of new devices

SKILLS AND AWARDS

- **Programming Languages:** Java, Swift, C, Python, C++, LC-3 Assembly, SystemVerilog
- **Technologies/Tools:** Xcode, Git, Firebase, CloudKit
- **Skills:** FPGA programming, Digital Logic Design, Breadboard Circuit Design
- **Languages:** Spanish
- **Awards:** Illinois State Seal of Biliteracy in Spanish (2019), National Spanish Exam Senior Scholarship (2020)

LEADERSHIP AND INVOLVEMENT

Theta Tau Professional Engineering Fraternity

Champaign, IL

Recruitment Chair

September 2021-Present

- Engage with other University of Illinois engineering students to gain professional skills and knowledge
- Advertise and plan recruitment events to encourage students to apply and organize new member selection process

Center for Academic Resources in Engineering (CARE)

Champaign, IL

Tutor

August 2021- Present

- Help students with coursework for introductory engineering classes
- Work with a team to lead review sessions prior to exams

Mi Pueblo: Spanish Conversation Groups

Champaign, IL

Vice President/Facilitator

August 2020-Present

- Design activities and lead club meetings with group members to practice Spanish
- Planned recruitment events and redesigned website to shift to in person meetings

Engineering Outreach Society

Champaign, IL

Project Chair

August 2020-May 2022

- Travel to local elementary schools to engage students in science experiments
- Plan projects and organize materials prior to group volunteering sessions