

Megan Mulcahy

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EDUCATION

The University of Alabama *Candidate for B.S. Computer Science with a Minor in Mathematics*

Expected May 2025

GPA: 3.42/4.0

Relevant Coursework: Computer Security, Data Structures & Algorithms, Software Design & Engineering, Operating Systems, Database Management Systems, Digital Logic, Microcomputers, Programming Languages, Web Foundations

- Cybersecurity Concentration
- Honors College, Engineering Scholarship, UA Scholar Scholarship

Highland Park High School

August 2017 - May 2021

GPA: 4.28/4.0

- Computer Science Honor Society, Mu Alpha Theta Math Honor Society, Science Honor Society

PROFESSIONAL HISTORY

Dallas Plastic Surgery Institute · App Developer/ Intern · Dallas, TX

June 2022 - Current

- Developed iPhone application to streamline organization of plastic surgery procedure catalog
- Collaborated with cross-functional team including plastic surgeon and Social Media Manager for design inputs
- Designed marketing and educational material to empower patients by increasing accessibility of procedure information

PROJECTS

The Plastic Surgery Guide

June 2022 - Current

- Developed an iPhone app using Swift for a client, creating a user-friendly interface that offers comprehensive information about plastic surgery procedures.
- Led the UI design process for the SwiftUI Plastic Surgery Guide, conducting thorough research, wireframing, and collaborating with a social media specialist to enhance branding.
- Integrated real-time data updates from the client's website using APIs and implemented an efficient search functionality to optimize user experience.

ChocAn

August 2022 - December 2022

- Successfully implemented the ChocAn Database Management software using the Waterfall Method, leading the system design, Java code implementation, and deployment using Eclipse IDE in a team of six.
- Created and implemented UML diagrams and activity diagrams for comprehensive system documentation.
- Applied practical problem-solving skills to implement effective data persistence techniques, utilizing databases, and file systems.

Interpreter

August 2023 - December 2023

- Developed three language interpreters—Lox, Byte, and Lisp—enabling the execution of grammar written in C# and C.
- Utilizing guidance from the Crafting Interpreters textbook and utilized generative AI to ensure effective implementation.

SKILLS

LANGUAGES: C++, C#, C, Java, SQL, Swift, Python, Object-Oriented Programming (OOP), MatLab, HTML

TECHNOLOGIES: Github, Firebase, Eclipse, VScode, Oracle, MongoDB, XCode, VMBox, Microsoft Office, Adobe Cloud

ENGINEERING: Quartus Prime, Circuit Design, Assembly/C, Data Analysis

LEADERSHIP HISTORY

Alpha Delta Pi · Homecoming Coordinator

September 2021 - November 2022

- Designed and led completion of a 96 sq. ft. art piece for a homecoming competition.
- Managed 400+ students, ensuring seamless coordination and participation during the homecoming event.
- Leveraged strong communication and organizational abilities to rally volunteers, delegate tasks, and maintain a cohesive workflow.

HONORS & AWARDS

Sigma Alpha Lambda Honor Society · The University of Alabama

January 2022

Honor and leadership organization recognizing academic achievement and community involvement in the Greek community.

AP Scholar with Distinction · College Board

May 2021

Awarded for average score of at least 3.5 and scores of 3 or higher on 5 or more AP Exams.

Girl Scout Silver Award · Girl Scouts of North East Texas

October 2018

Planned, organized, and fundraised for a highly successful 57-hour sustainable service project, resulting in the transformation of a non-profit senior center's public-use room.