

Patrick Fontaine

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SUMMARY

Detail-oriented computer science student with a minor in mathematics seeking an internship position. Leveraging a solid foundation in C, Java, and Python, coupled with hands-on project experience, to contribute to real-world software development challenges. Eager to gain professional experience and contribute to innovative work.

Education

Texas Tech University, Lubbock, TX Expected Graduation 2025
Texas Tech University Honors Program

- *BS in Computer Science, minor in Mathematics*
- *GPA: 3.775/4.0*
- **Relevant Coursework:** Data Structures, Design and Analysis of Algorithms, Theory of Automata, Computer Architecture, Concepts of Programming Languages, Object-Oriented Programming, Human-Computer Interaction, Software Engineering

PROJECTS AND LEADERSHIP EXPERIENCE

Golf Handicap App, *Independent Project* Fall 2024

- Allows a user to track their score in a round of golf
- Used Figma to design UI and native react for framework
- Uses states to capture the score for each hole and save the final score

Group Meal Planner App, *Class Project*, Human-Computer Interaction Fall 2024

- Created an app for public use that allows a user to plan their meals with roommates/partners
- Used Figma to design UI and native react for framework
- Utilizes account authorization with Firebase, a group planning feature, and Recipe/Calendar API

Movie Booking System, *Class Project*, Software Engineering Fall 2024

- Created a web-based program allowing users to buy movie tickets in exchange for a QR code.
- Used React for frontend and Java for backend
- Utilizes account authorization, SQL for database, hashing sensitive information, and a QR code API

Medical Appointment Scheduler, *Class Project*, Object-Oriented Programming Spring 2024

- Designed a program in Java that allows users to create medical appointments for patients
- Implements different appointment classes using inheritance and abstraction
- Stores user information as well as appointment information for organization and efficiency

Matrix Evolution with Multiprocessing, *Class Project*, Concepts of Programming Languages Spring 2024

- Designed a program in Python to evolve a matrix of any size using the TTU HPCC
- Uses multiprocessing by calculating number of cells each process should handle
- Implements argparse to get initial input file, the number of processes, and display the output file

Phone Directory Management System, *Class Project*, Data Structures Fall 2023

- Designed a program in C that manages a phonebook
- Performs adding or searching for a person, loading data from a file, and exiting the program
- Implements structures, double pointers, and linked list

Google Developer Student Club, *Club*, Texas Tech University Spring 2023 - Present

- Led and taught by students
- Participated in workshops, code-alongs, and speaker events

TECHNICAL SKILLS

- *Computer Languages:* C/ C++ , Java, Python, HTML, CSS, React, React Native, JavaScript
- *Tools:* Visual Studios Code, GitHub, Eclipse IDE, Figma, Firebase
- *Skills:* Problem solving, communication, mathematics