

Thomas Whaley

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Summary

Senior Computer Science major at the University of West Georgia. Skilled in object-oriented languages such as C++, C#, and Java. Experience working in agile environments. Familiar with testing frameworks such as JUnit in Java, Catch in C++, and unittest in Python. Strong proponent for test-driven development. Experienced with the SQLite database management system. Knowledgeable about UNIX operating systems and writing shell scripts for them. Experience writing multi-threaded programs and incorporating proper synchronization.

Education

University of West Georgia
Bachelor of Science in Computer Science
GPA: 3.85

Carrollton, GA
May 2021

Notable Mentions

Ingram Scholar Award
University of West Georgia Hackathon Winner
Categorizing Polyhedral Dice Using Image Data

Fall 2018 – Present
Spring 2020
Abstract/Presentation: Spring 2020

Technical Skills

Languages:
Technologies:

Java, C#, C++, Python, HTML, CSS, JavaScript, SQL
Docker, Jenkins, Git

Projects

Instant Messaging Chat Application

February 2020 – Present

- The server side for this application is written in Java. It is a TCP socket based communication server that is completely multi-threaded. It has the capability to support many ongoing connections at any given time. The server has a full test suite with 92% test coverage. Users send messages through one gateway on the server and listen for messages on another gateway. This approach works great because it allows users to receive messages on the listening gateway without asking for them. Messages can be shown to the user as other users send them giving the appearance of a live instant messaging application.
- The front end for this application has not been developed yet. The current goal is to develop a user interface in C++ using MinGW.

Image Stenography Application

October 2019 – November 2019

- This application allows users to encrypt the contents of a text file or an image within the pixels of an image. Bit manipulation is used to store the data within the image. For text files, the user has the ability to encrypt the contents using a Vigenère cipher. The user can then save the image with the encrypted data in it and decrypt it by resubmitting it to the application.