Robert John Mallow

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Education

The University of Alabama, Tuscaloosa, AL
Bachelor of Science in Computer Science and Finance   **Graduation Date:** May 2020
Honors College   **GPA:** 3.8

St. Louis University High School (SLUH)   **Graduation Date:** May 2016

Experience

The Boeing Company - Software Engineering Internship   **Summer 2019**
- Upgraded old Message Inspection Window from MFC to the C++ QT framework with expanded functionality for the P8 instructor operating system
- Designed and implemented the new window GUI including search and automatic categorization for messages
- Converted existing logic for the old window to use QT event handling along with adding the ability to track as many messages as needed in an easy to view tabbed interface
- Updated backend tracking to improve efficiency for more messages

Mercedes-Benz U.S. International (**MBUSI**) **- Research Software Developer**   **Fall 2019**
- Created a program using Python and two machine learning models to extract images and information of numerous barcodes from warehouse images for an automatic inventorying process
- Analyzed multiple machine learning research models to determine best fit for task
- Trained a transfer learned object detection machine learning model on provided data and outside collected data
- Wrote scripts in Python that modified data automatically for improved training

National Information Solutions Cooperative (NISC) - Software Development Internship   **Summer 2018**
- Developed for the batch back end team in both Java and SQL languages on both new projects and change requests
- Analyzed legacy code in bash and COBOL to implement old functionality
- Created and completed the retirement summary report project which combined and analyzed all available retirement information for four retirement scenarios and integrated the results into a concise report used for quick analysis

Skills

Computer Programming Languages:
      Java, Python, C++, C, JavaScript, SQL
Electrical Soldering, Circuitry, and Microcomputer experience
Experience in Linux Mac and Windows

Activities

Sigma Pi Fraternity Member, University of Alabama Chapter   **2016 - 2020**

Fort Zumwalt School District Special Education Information Management Systems
- Wrote scripts for data collection and analysis that handles sensitive information and allows for collaboration among staff throughout an entire school district
- Updated to include statistic workload calculation based off all data for planning purposes

LIFT Priority Soldier
- Volunteered at The University of Alabama's College of Commerce's LIFT Program for veterans at VA Center in Birmingham
- Led classes and tutored veterans in financial literacy, professional development, and computer skills

SLUH Robotics Team, Head of Software Design
- Developed a quadcopter, vending machine, and VEX robotics and competed in SLUH FIRST Robotics Competition

SLUH Racquetball Team   **2012 - 2020**
- Won three team state titles, three National team championships, and an individual national title