Samuel Scott Merchant

ssmerchant@crimson.ua.edu | (205) 712-1567 | ssmerchant.github.io

EDUCATION

Bachelor of Science, December 2022
The University of Alabama, Tuscaloosa, AL

Major: Mathematics   Concentration: Statistics and Optimization

Minor: Computing Technology & Applications
Million Dollar Band, Drumline, 2017-2020
University Symphonic Band, 3rd Chair Percussion, 2017-2018

RELEVANT COURSEWORK

- Mathematical Statistics
- Python Programming
- Statistical Data Analysis
- Computerized Database Systems

- Advanced Spreadsheet Applications
- Technical Writing
- Linear Algebra
- Stochastic Processes

RELEVANT EXPERIENCE

Engineering Intern, Summer 2019
Bolzoni Auramo Inc., Sulligent, AL

- Implementation of Manufacturing Execution System (MES) quality control software in product assembly lines.
- Analysis of assembly line data using SQL and Excel to determine usage of MES.
- Integrating MES with inventory database to update number of parts used.
- Gave presentations to assembly workers to instruct them on how to operate the MES software.
- Regular maintenance and testing of power tools in product assembly lines.
- 3D modeling in SketchUp 3D Design software for parts used in various projects.

ADDITIONAL EXPERIENCE

Drumline Instructor, Summer 2020
Lamar County High School, Vernon, AL

Drumline Instructor, Summer 2017, Summer 2018
Sulligent High School, Sulligent, AL

SKILLS

- Python (pandas, NumPy, Matplotlib, PyTorch, BeautifulSoup)
- SQL
- JavaScript, node.js
- HTML/CSS

- Microsoft Excel (Macros, VLOOKUP, PivotTables)
- Data Visualization (Tableau, PowerBI)
- Experience with Windows, Mac, and Linux operating systems

PROJECTS

COVID Data Analysis

- Prepped CDC data using SQL to display COVID rates by state using PivotTables in Excel.
- Data imported to Tableau to create interactive visualizations.
- Used data to show vaccine effectiveness.

Netflix Original Films Analysis

- Used Netflix data to determine most popular release times and distribution of IMDB scores within a given genre.
- Created dashboards in Tableau to analyze and present data.
- Used Python to find correlation of IMDB scores with other variables.

iFixit Project

- Worked in a group of four to create an online step-by-step guide on how repair an electronic device.
- Disassembled laptop components and photographed the process.