

# Samuel Scott Merchant

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## EDUCATION

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### 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**, 3<sup>rd</sup> Chair Percussion, 2017-2018

## RELEVANT COURSEWORK

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|---------------------------------|-------------------------------------|
| • Mathematical Statistics       | • Advanced Spreadsheet Applications |
| • Python Programming            | • Technical Writing                 |
| • Statistical Data Analysis     | • Linear Algebra                    |
| • Computerized Database Systems | • Stochastic Processes              |

## RELEVANT EXPERIENCE

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### 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

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### Drumline Instructor, Summer 2020

**Lamar County High School**, Vernon, AL

### Drumline Instructor, Summer 2017, Summer 2018

**Sulligent High School**, Sulligent, AL

## SKILLS

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|--|---|
| • Python (pandas, NumPy, Matplotlib, PyTorch, BeautifulSoup) | • Microsoft Excel (Macros, VLOOKUP, PivotTables)            |
| • SQL  | • Data Visualization (Tableau, PowerBI)                     |
| • HTML/CSS   | • Experience with Windows, Mac, and Linux operating systems |

## PROJECTS

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### 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.