

Samuel Scott Merchant

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EDUCATION

Bachelor of Science, December 2022

The University of Alabama, Tuscaloosa, AL

Major: Mathematics

Concentration: Statistics and Optimization

Minor: Computing Technology & Applications

CAMPUS INVOLVEMENT

Million Dollar Band, Drumline, August 2017 - May 2020

University Symphonic Band, 3rd Chair Percussion, August 2017 – December 2017

RELEVANT EXPERIENCE

Intern Engineer, May 2019 - August 2019

Bolzoni Auramo Inc., Sulligent, AL

- Pinpointed quality issues in production lines by implementing Manufacturing Execution System (MES) quality control software in assembly stations.
- Performed analysis of assembly line data using SQL and Excel to determine usage of MES every shift.
- Automatically updated inventory database by integrating with MES workstations.
- Gave presentations to coworkers on how to operate the MES software.
- Modeled parts to be used in various projects using Sketchup 3D Design software.
- Regular maintenance and testing of power tools in product assembly lines to ensure production was always moving.

ADDITIONAL EXPERIENCE

Drumline Instructor, August 2020

Lamar County High School, Vernon, AL

Drumline Instructor, August 2018, August 2017

Sulligent High School, Sulligent, AL

SKILLS

- Python (Pandas, NumPy, Matplotlib, PyTorch, BeautifulSoup)
- SQL, Microsoft SQL Server, MySQL
- JavaScript, Node.js
- HTML/CSS
- Machine Learning (AWS SageMaker, K-nearest Classification, Regression, Predictive Modeling)
- Microsoft Excel (Macros, VLOOKUP, PivotTables)
- Data Visualization (Tableau, PowerBI)
- Data Collection and Cleaning
- Amazon Web Services (AWS)
- Experience with Windows, Mac, and Linux operating systems

PROJECTS

Twitter Bot | JavaScript, Heroku

- Automatically reports the current top 5 Formula 1 rankings every week.
- JavaScript was used to write the bot and to scrape data from ESPN.
- Connected with the Twitter API and deployed using Heroku cloud application platform.

COVID Data Analysis | SQL, Excel, Tableau

- Created interactive visualizations in Tableau to show vaccine effectiveness.
- Prepped CDC data using SQL to display COVID rates by state.

iFixit Project

- Created an online step-by-step guide on how repair a laptop with 3 other collaborators.
- Gave visual documentation and wrote technical summaries of the process to upload to the iFixit website.