

# CLAIRE BOGDAN

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## PROFILE SUMMARY

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Recent computer science graduate passionate about software engineering and development. Experienced leader, former public middle school teacher, and oboist. Proficient in modern technologies such as Python and Java.

## EDUCATION

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**B.S. Computer Science**, Western Governors University, September 3<sup>rd</sup>, 2020

**B.S. Music Education**, University of South Carolina, May 12<sup>th</sup>, 2017

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL, HTML, CSS, JavaScript, JavaFX, C++, ReactJS

**Platforms and Frameworks:** GitHub, Heroku, Flask, Bootstrap

**Databases:** MySQL, Oracle SQL, SQLite

**Development Tools:** NetBeans, PyCharm, Visual Studio Code, Jupyter Notebook

## SOFTWARE PROJECTS

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**PerfectFit Website and Web Application** (<https://perfectfit-wgu.herokuapp.com>)

- Received the **Certificate of Excellence Award** from Western Governors University.
- Created a Python Flask web application that allowed users to find out what careers would be most satisfying for them based on their Myers-Briggs personality type.
- Incorporated an SQLite database to store user login information and results from the personality quiz.
- Conducted exploratory analysis using a variety of data visualization techniques.
- Developed a logistic regression model that predicted best job fit for a given personality.
- Utilized: Python, Flask, Heroku, JavaScript, HTML, SQLite, Web Application Development

### Appointment Management System Application

- Created a stand-alone business application to manage customers and appointments. Users could add/modify/delete customers, add/modify/delete appointments for customers, create reports, and view a calendar of appointments.
- Via an interactive GUI, users could query and update the MySQL database, which stored all information pertaining to customers and appointments.
- Utilized: Java, JavaFX, MySQL, GUI Creation

### Inventory Management System Application

- Developed a stand-alone application that allowed businesses to manage inventory. Users could add/modify/delete parts and products from the inventory. Users could also search for the parts and products by name or identification number.
- Interactive GUI allowed for adding/modifying/deleting parts and products from inventory.
- Utilized: Java, JavaFX, GUI Creation

### Package Delivery Application: *a variation of the "Traveling Salesman Problem"*

- Used a chaining hash table to store package information and a graph data structure to store delivery locations.
- Created a greedy algorithm that generated the shortest route that would deliver all packages to the correct locations on time with the minimum amount of miles traveled.
- Utilized: Python, Data Structures, Algorithms

## EMPLOYMENT

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**Freelance Oboist** – Bogdan Reeds – Charleston, SC & Columbus, OH (2019 – 2020)

- Established a private lesson studio and oboe reed making business.
- Taught private oboe lessons to middle and high school students.
- Sold handmade oboe reeds to oboists across the country.

**Band Director** – DuBose Middle School – Summerville, SC (2018 – 2019)

**Band Director** – Westglades Middle School – Parkland, FL (2017 – 2018)

- Taught 220 middle school band students.
- Responsible for directing and managing a band parent organization.
- Organized fundraisers, events, concerts, and field trips.

## CERTIFICATIONS

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- Oracle SQL Certified Associate
- ITIL Foundation Certificate in IT Service Management
- CompTIA Project+ Certification
- CIW Site Development Associate