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|  | Brian Ni | New York, NY | |
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| Jr. Software Engineer | (843)-635-1323 | |
| [brianni2.github.io/resume](https://brianni2.github.io/resume/) | [linkedin.com/in/brianni2](https://www.linkedin.com/in/brianni2/) |
| Motivated individual looking for Junior Software Engineering role. | | | |

**KEY SKILLS**

* Languages: C++, Python, Java, SQL, JavaScript
* Frameworks: Pandas, NumPy, PyGame, React.js
* Software: VS Code, Visual Studio, SSMS, Git, Jupyter Notebooks, Anaconda, VIM
* Core Competencies: Detail Driven, Communication skills, Critical Thinking skills, Teamwork and Collaboration skills

**EDUCATION**

Bachelor of Science in Computer Science | Binghamton University at Binghamton, NY August 2019 – May 2023

*Thomas J. Watson College of Engineering and Applied Science*

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| **Relevant Coursework:** | |
| * CS240 - Data Structures and Algorithms (C++) * CS428 - Computer Networks (Python) * CS444 - Programming for the Web (JavaScript) * Math226 & Math227 –Calculus 2 | * CS375 - Design and Analysis of Algorithms (C++) * CS442 - Design Patterns (Java) * CS471 – Programming Languages (Prolog & Haskell) * Math304 – Linear Algebra |

**PROFESSIONAL EXPERIENCE**

Consulting – Intern May 2023 – Current

- Working on Python project using Pandas and Openpyxl connecting to SQL server backend to generate Excel reports

- Automating Excel reports and its formatting and mailing using Python

- **Skills:** SSMS, SQL Server 2022, T-SQL, Python, Jupyter Notebooks, VS Code, Anaconda

Course Assistant | *Binghamton University* | Binghamton, NY August 2021 - June 2022

- Assisted students in developing their writing skills and understanding of ethical frameworks, improving student outcomes

- Graded and provided written feedback for presentations and essays, improving student course satisfaction

- Coordinated and worked with other course assistants in grading, planning, and documenting course materials

- Tracked and recorded student progress on Google Sheets and Brightspace, keeping students updated on their progress

- **Skills**: Microsoft Word, Interpersonal Communication

**PROJECTS**

LearnIt!

- Created a Quizlet-styled Python program housed in the terminal using the Curses library

- Implemented algorithm for randomizing study sets, updating as users correctly answer questions

- Designed optimal data structures for data access and external read-write capabilities using the Json library

Python Excel Report Tool

- Created a Python class that automates generating Excel file from an SQL database using Pandas and Openpyxl

- Implemented an Openpyxl workbook wrapper class to format Excel rows, columns, and cells

- Wrote a Python script to automate emailing reports using SMTPLib and the Python Email library

Spotify Web App

- Created a simple web app using JavaScript, React.js, and the Spotify API

- Collaborated with 3 other members in the web app design, creating a simple-yet-intuitive user interface

- Implemented algorithm that prevents users from seeing previously skipped or saved songs

Python Tower Defense Game

- Created a tower defense game in the Python language using PyGame in collaboration with 2 other peers

- Implemented algorithms for entity pathing, collision, and event handling

- Presented and demoed game to a live audience consisting of course staff and students