



Brian Ni

Jr. Software Engineer

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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

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