

TIMOTHY M. GLEW

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OBJECTIVE

To secure a software engineering position where I can utilize my teamwork, communication, and technical skills to help achieve organizational goals while growing as a professional within the software engineering field.

EDUCATION

Oregon State University, Corvallis, OR 3/2019 – 6/2020

Bachelor of Science, Computer Science - GPA: 4.00/4.00

Michigan State University, East Lansing, MI 8/2013 – 5/2018

Bachelor of Arts & Master of Science, Accounting - GPA: 4.00/4.00

SKILLS

- Experience with: Python, C++, C, JavaScript, HTML, CSS, SQL, Node.js, Git

WORK EXPERIENCE

Deloitte – Financial Statement Auditor, Detroit, MI 8/2018 – 7/2019

- Worked on multiple teams of 3-8 professionals to complete financial statement audits for healthcare and gaming industry clients
- Developed strong organizational, time-management, and written/verbal communication skills as a result of daily coordination of work and information between teams and clients

Michigan State University – CSE 101 Graduate Assistant, East Lansing, MI 8/2017 – 5/2018

- Instructed 3 sections of 'CSE 101 - Computing Concepts and Competencies' through a combination of lectures and guided exercises (12 hours of instruction per week)
- Topics taught included: information storage, retrieval, management, and representation, introduction to VBA and decision structures, and introduction to databases and SQL

PROJECTS

Security-based Research Project (Python, Flask & MySQL)

- Collaborated in a team of three to create a secure and insecure version of a basic to-do list web application by researching web app vulnerabilities, penetration testing our insecure site, and then patching the secure version
- For each vulnerability researched, created a detailed write-up explaining what the vulnerability is, specific steps to exploit the vulnerability on our insecure site, and the steps taken to patch the vulnerability on our secure site
- Vulnerabilities covered include: SQL injection, broken authentication, broken access control, sensitive data exposure, cross-site scripting, and insufficient logging and monitoring

Music Library Migrator (Python, Spotify API)

- Created a Python program to migrate music libraries between Google Music and Spotify
- Used the 'Spotipy' Python library to access Spotify's API and the 'gmusicapi' Python library to control Google Music
- Migration retains individually saved songs, saved albums, and rebuilds playlists

Spell Checker (C)

- Implemented a case-insensitive spell checker
- Spell checker indicates if a user-provided word is spelled correctly or not, and if it is spelled incorrectly, uses a Levenshtein distance calculation to provide the five closest matches
- Includes a full hash map implementation that is used to track the results of Levenshtein distance calculations

OPEN SOURCE CONTRIBUTIONS

gmusicapi (Python API for Google Play Music)

- Created an example script demonstrating how to use the 'Musicmanager' interface to authenticate a Google Music account and upload/download music