Megan McAdams

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Education

University of North Texas Aug. 2019 – Dec. 2023
Bachelor of Science in Computer Science, Minor in Spanish *Denton, TX*

Experience

Software Engineering Intern June 2023 – Aug. 2023
Bank of America *Plano, TX*

- Created solutions for 4 projects as a part of an intern team
- Pushed 3 completed applications to production for use
- Coded a Python application to automate transferring files from production to UAT
- Reviewed over 100 imported modules to effectively refactor a program run hundreds of times a day, eliminating 2 minutes of runtime
- Set up automated jobs to run programs daily

Billing Operations Student Assistant Mar. 2021 – June 2023
UNT Student Accounting *Denton, TX*

- Improved tuition and fee validation for over 40,000 accounts by coding a program in Python, increasing the accuracy of validation and reduced time frame from a week minimum to 30 minutes
- Analyzed email data and created reports utilizing spreadsheets and formulas
- Innovated an application for students to view how much their payment plan would cost each installment prior to enrolling in the plan

Projects

Wikipedia Clone | *Python, Flask, JavaScript, HTML/CSS* June 2023 – Present

- Utilized Python Flask and Google Firestore to create a Wikipedia-like web app
- Allows for account creation and session management
- Users can edit, create, add permissions for, and navigate pages

Balanced Binary Search Tree Dictionary | *Java* Feb. 2023 - Mar. 2023

- Reads and stores reptile information in a dictionary using a balanced binary search tree implementation
- Performs a search using the binary search tree to return the result in O(log n) time
- Implemented find, add, remove, successor, predecessor, and other functions for the binary search tree

Tuition Validation | *C++, Python* June 2021 – June 2023

- Accurately validates over a half a billion dollars in university revenue throughout the academic year
- Interprets and utilizes pseudocode instructions to determine which students receive which charges
- Takes less than 10 seconds to calculate expected amounts for over 40,000 student accounts
- Written in C++ but later rewritten in Python

Leadership and Awards

President and Founder of UNT Computer Science Club Feb. 2021 – Present
President of UNT Women in Computing Aug. 2021 – Jan. 2022
Outstanding Student Employee of the Year May 2022
Outstanding Junior in Computer Science Apr. 2022

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib