# **Benjamin McLemore**

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## **Work Experience**

Nov 2021 - Present Data Engineer University Technology Office, Arizona State University

- Write Python ETL scripts using Prefect to fulfill data requests from university departments, faculty, and staff.
- Helped maintain some university portal web pages, which retrieve and display data from university APIs.
- Wrote a translation script between Control-M and Prefect, so that the execution of Prefect flows can be orchestrated by Control-M.

Jan 2021 - May 2021 Database Systems & Python Instructional Aide New College, Arizona State University

- Developed resources to assist students in learning the material, such as example projects, instructions on using software, and reference sheets.
- Assisted the professor in running the class sessions over Zoom.
- Held office hours for and maintained email correspondence with students to help them complete projects and learn the material.

Dec 2013 - Aug 2019 Ice Skating Instructor Schenley Park Ice Rink and RMU Island Sports Center

- Taught basic skills ice skating classes to groups of students aged 5-14.
- Taught lower-level partnered ice dances to students of all ages.
- Partnered my ice dance students during test sessions.
- Helped run the volunteer Learn-to-Skate program at the Schenley Park Ice Rink during my final year, organizing volunteer instructors, reserving
  ice time, evaluating students, and corresponding with parents

#### **Education**

Aug 2019 - Present Computer Science BS, Barrett Honors, 4.0 GPA, Arizona State University

Jun 2019 Graduated High School, GPA 4.0, Wexford Homeschool

## **Classes in Specialized Areas**

CSE 476: Natural Language Processing (In Progress)

• Description: Principles of computational linguistics, formal syntax, and semantics, as applied to the design of software with natural (human) language I/O.

## CSE 325: Embedded Microprocessor Systems (In Progress)

- Description: System-level programming and analysis of embedded microprocessors systems. Fundamental concepts of digital system design for embedded system applications.
- Final Project: Build a simple robot with a microprocessor and program it to navigate a simple area, such as a classroom.

#### CSE 445: Distributed Software Development A+

- Learned about the service oriented computing philosophy, multithreaded and event-driven programming, using XML for data storage and transfer, and web application development and security.
- Final Project: Built an ASPX web application in .NET with user registration, authentication, and different access priveledges, access to third-party APIs, and a service oriented architecture using WCF services.

#### ACO 501: Database Systems & Python Instruction Aide

- Taught students the basics of using Python for data science, including extracting data from sometimes messy documents in CSV or XML format, organizing the data and storing it in a standard relational database, and extracting the data from the database for statistical analysis and visualization.
- Final Project: Develop a Jupyter Notebook that loads real-world scientific data from an ASU professor into a database, extracts that data from the database, and provides statistical analyses and visualizations desired by the professor.

### Skills

#### **Programming Languages:**

Python, Java, C/C++, SQL, Typescript/Javascript, C#, Ruby, Rust, Erlang, Prolog

#### Frameworks/Modules:

Python: Pandas, Jupyter Notebooks, Matplotlib, Numpy, Tkinter

Typescript/Javascript: React

Java: Swing

## Products/Technologies:

Prefect, SQLite, Oracle Database/Oracle SQL Developer