Jonah Osband

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EDUCATION

University of Pittsburgh, Pittsburgh, PA   Degree Expected: April 2024
Bachelor of Science in Computer Science   **GPA: 4.0**

RELEVANT EXPERIENCE

Pyramid Systems Inc., Fairfax, VA
Technical Intern   June 2022-August 2022
➢ Utilized Google Cloud Platform to produce a proof of concept fully automated data pipeline to act as a template for government tech challenges for multimillion-dollar contracts
➢ Created Apache Beam pipelines run on Dataflow that filtered data and converted records to Longitudinal and Latitudinal points
➢ Leveraged the K-means, DBSCAN, and a time-filtered DBSCAN Machine Learning Model to cluster over 80,000 FEMA disasters and mapped FDIC insured banks to clusters using the K-nearest neighbor algorithm
➢ Orchestrated the pipeline using an Apache Airflow environment
➢ Engineered a React Website hosted on Google App Engine to display Machine Learning results

University of Pittsburgh, School of Computing and Information, Pittsburgh, PA
Undergraduate Teaching Assistant   August 2021-December 2021
➢ Led two-hour lab sessions teaching Jupyter Notebooks, Python, Pandas, GeoPandas, Matplotlib, Git, and NumPy
➢ Hosted office hours where I worked one-on-one with students to review and reinforce lab material
➢ Coordinated efficient ways to explain material and improve teaching styles with other UTAs and the Professor

PROJECTS

Pitt BOT GitHub: josband/PittBot   July 2022-August 2022
➢ Contributed an emoji synchronization feature to a Python Discord Bot for all University of Pittsburgh servers that allows moderators to approve/deny changes in community or administrator servers
➢ Leveraged a HashSet to act as a cache of recently edited emojis to properly handle event occurrences
➢ Supplied asynchronous emoji-syncing functions to a utility package
➢ Composed a View for administrators to easily see modifications and approve or deny the synchronization

Chess Game GitHub: josband/java-chess   April 2022-May 2022
➢ Employed Java and Object-Oriented Programming to create a game with an interactive Java Swing based GUI
➢ Evaluated optimal data structures to use based on required tasks such as Linked and Array Lists
➢ Utilized polymorphism and dynamic binding for easy use of various piece objects

Personal Website GitHub: josband/josband.github.io   December 2021-January 2022
➢ Applied HTML to structure multiple pages containing my resume and important links
➢ Implemented CSS styling to create an engaging interface and experience
➢ Linked the Font Awesome library and toolkit to create a clear and simple interface

TECHNICAL SKILLS

➢ Java, C, HTML, CSS, Python (Notable Packages: Pandas, Scikit-learn, and Plotly), GCP, JavaScript (React, NodeJS)
➢ Development in Windows and Linux environments
➢ Object-Oriented and Procedural Programming

LEADERSHIP EXPERIENCE

TopGolf, Germantown, MD
Caddie Shift Lead   April 2021-August 2021

Darnestown Swim and Racquet Club, Darnestown, MD
Assistant Tennis Coach, Junior Coach   June 2013-June 2020
➢ Developed a daily curriculum for 100 students for age ranges 3-65 by selecting skills to focus on

ACTIVITIES

University of Pittsburgh Club Tennis, *Fundraising Committee Officer*   September 2020-Present
Pitt Computer Science Club, *Member*   September 2020-Present