Jonah Osband

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🎓 Education

Bachelor of Science in Computer Science, *University of Pittsburgh*   Aug 2020 – Dec 2023 | Pittsburgh, PA
GPA: 4.0/4.0

💼 Professional Experience

Software Engineering Intern, *BNY Mellon*   Jun 2023 – Aug 2023 | Pittsburgh, PA
- Aggregated 40 GB of data per day consisting of 250 million to 1 billion rows to assess client risk exposure using Pyspark
- Produced new and modified existing reports in an internal application with an Angular front-end and Spring Boot data service for hundreds of analysts to make quick decisions on client borrowing limits
- Constructed and optimized SQL queries according to changes in business needs for existing and new reports
- Oversaw and improved implementation of agile practices across Corporate Engineering teams

Software Engineering Intern, *Pyramid Systems Inc.*   Jun 2022 – Aug 2022 | Fairfax, VA
- Utilized Google Cloud Platform to create a fully automated data pipeline used as a template for government tech challenges for multimillion-dollar contract bids
- Cleansed and mapped bank entries to longitudinal and latitudinal points for clustering models using Apache Beam
- Leveraged various machine learning models to cluster over 80,000 FEMA disasters and mapped over 4,000 FDIC-insured banks to clusters using a k-nearest neighbors classifier
- Accounted for new data by automating pipeline runs in an Apache Airflow environment to reduce maintenance

Undergraduate Teaching Assistant, *University of Pittsburgh*   Aug 2021 – Dec 2021 | Pittsburgh, PA
- 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

Internship Website, *Github: josband/CSC-Hacks-2022* ⇱   Nov 2022
- Competed in the Pitt CSC Hackathon to produce a website replacing the Club's internship repository with 19,000 users
- Stored job postings in a MongoDB instance hosted on AWS for flexibility in structure of data as requirements change
- Constructed a React UI to enhance user experience with a filtering feature based on various attributes of the postings

PittBot, *Github: josband/PittBot* ⇱   Jul 2022 – Aug 2022
- Contributed an emoji approval and synchronization feature to a Python Discord bot for all of Pitt's 11 residence halls of over 6,000 students
- Leveraged asynchronous utility functions and in-memory caching to improve processing time for student users
- Provided emoji-synching functions via a utility package for future developers to easily reuse feature functionality

🧠 Skills

Languages: Java, Python, C, SQL/PostgreSQL, HTML, CSS, Javascript, Typescript, Go

Frameworks: React, Node.js, Pandas, Angular, JDBC, Plotly, Geopandas, NumPy, Selenium, JUnit, Spring Boot, Pyspark

🏠 Organizations

Pitt Club Tennis, *Fundraising Committee Chair*   Sep 2020 – Present

Pitt Computer Science Club, *Member*   Sep 2020 – Present