Zach Sahlin

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RELATED COURSEWORK

- Algorithms & Abstract Data Structures
- Machine Learning & Intelligent Systems
- Operating Systems
- Database Management Systems
- Data Science Algorithms
- Programming Languages & Compilers

TECHNICAL SKILLS

- Languages: C++, Java, Python
- Tools: Git, Linux, Docker, Jupyter, Postgres
- Libraries: pandas, NumPy, scikit-learn, Matplotlib

EDUCATION

Gonzaga University | Spokane, WA   August 2019 – Expected May 2023

BS in Computer Science, Minor in Applied Mathematics

- GPA: 3.8
- President's List: Fall 2019, Spring 2020, Spring 2021
- Dean's List: Fall 2020, Fall 2021, Spring 2022

PROJECTS

Machine Learning for Real Estate | Python, SQL, JS   *Ongoing*

- Senior Design Project
- Collects data on historical rental prices.
- Predicts future rental prices.
- Displays historical prices and predictions as a web app.

Stock Analyzer | Python, Postgres, selenium   *Summer 2022*

- Collects historical and current data from various sources using APIs and webscraping.
- Performs analysis on current market trends.
- Provides user with information on when to buy, hold, or sell stocks.

Fantasy Football Drafter | Python, Sphinx   *Fall 2021*

- Models a fantasy football draft to use for testing.
- Tests and compares different drafting algorithms against each other.
- Uses Sphinx to create documentation.

Spotify Predictor | Python, pandas, scikit-learn, Matplotlib   *Fall 2020*

- Uses a decision tree and kNN to predict whether I will skip a song with an 81% accuracy.
- Connects to the Spotify API to gather additional data on each song.
- Uses Matplotlib to create plots to analyze the dataset.

Ski Resort Database | SQL, HTML, PHP   *Fall 2021*

- Connects webpages to a mySQL database to display information on ski resorts.

WORK EXPERIENCE

Gonzaga University | Teaching Assistant   *August 2022 – Present*

- Teaching assistant for 2 sections of Operating Systems.
- Grading programming and written assignments.

iD Tech | Online Private Instructor   *June 2021 – August 2022*

- Tutored in 8 different computer science topics, including C++, Java, and Python.
- Completed over 200 private lessons.
- Built relationships with long-term clients, and developed further skills in communication and coding.
- Collaborated with other instructors to improve teaching methods.