

Zach Sahlin

📞 206-607-7655 • ✉ zach@sahlins.net • 🌐 GoneSahlin

RELATED COURSEWORK

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

TECHNICAL SKILLS

- Proficient: C++, Java, Python
- Previous Experience: SQL, MATLAB, HTML, PHP
- Tools: Git, Linux, Docker, Jupyter
- Libraries: pandas, NumPy, scikit-learn, Matplotlib

EDUCATION

Gonzaga University | Spokane, WA

Aug 2019 – Expected May 2023

BS in Computer Science, Minor in Applied Mathematics

- GPA: 3.86
- President's List: Fall 2019, Spring 2020, Spring 2021
- Dean's List: Fall 2020, Fall 2021

PROJECTS

Fantasy Football Drafter | Python, Sphinx

Ongoing

- 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.

Nim Solver | Python

Fall 2021

- Models and plays the game of Nim using the optimal strategy for both 2 and 3 player games.
- Builds a graph of all possible states, calculates each state's probability of winning, and picks the best move.

Ski Resort Database | SQL, HTML, PHP

Fall 2021

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

Yahtzee | Java, Swing, JUnit

Spring 2021

- Models Yahtzee with a resizable GUI and customizable settings and utilizes JUnit to implement unit testing.

Bike Trail Classifier | Python, pandas, scikit-learn

Fall 2021

- Classifies bike trails into difficulties using a SVM with a 66% accuracy.

Linux Kernel Module | C

Fall 2021

- Modifies the Linux kernel with a simple module that can be loaded and unloaded.

WORK EXPERIENCE

iD Tech | Online Private Instructor

June 2021 – Present

- 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.

University Presbyterian Church | Kitchen and Event Assistant

August 2018 – August 2019

- Worked in a team to prepare food for congregants and homeless, numbering up to 700 people.
- Led groups of volunteers to serve food for the international community.