# Porter Glines

208-380-2898   |   porterglines@gmail.com

Master of computer science graduate with an emphasis on machine learning. Being diligent in my work and dedicated to treating software engineering as a craft led me to graduate top of my class and receive an outstanding graduate student award. Well-versed in Python, Rust, Swift, and JavaScript.

## Education

**Master of Computer Science**  •  Idaho State University
May 2022  •  Pocatello, ID

- 4.0 GPA, Phi Kappa Phi
- Outstanding Graduate Student 2021-2022
- Graduate Teaching Assistantship 2020-2021 and 2021-2022

**Bachelor of Computer Science**  •  Idaho State University
Dec 2019  •  Pocatello, ID

- 3.6 GPA Graduated *cum laude* with a minor in *Mathematics*

## Experience

**Research and Teaching Assistant**  •  Idaho State University
Oct 2019 - May 2022  •  Pocatello, ID

- Collaborated on generative machine learning models in **Python** and **Rust**
- Spearheaded research projects resulting in **4 peer-reviewed publications**
- Tutored and graded upper-division/graduate courses including **Computational Theory**, **Advanced Algorithms**, **Computational Creativity**, and **Machine Learning**

**IT Student Supervisor**  •  Idaho State University
Sep 2016 - Oct 2019  •  Pocatello, ID

- Updated PowerShell scripts to facilitate labs' transition to Windows 10
- Successfully managed and resolved IT issues for staff and faculty, demonstrating strong problem-solving and troubleshooting skills
- Implemented training programs, resulting in improved technical expertise of technicians

## Projects *(hosted on GitHub)*

**Constrained Hidden Markov Model**  *(Thesis)*

- Generated musical sequences styled after Bach chorales
- Written for performance in *Rust* with high test coverage (85%)
- Results compared favorably against an Anticipation-RNN (Recurrent Neural Network)

**Pomodoro: iOS/watchOS Tasks and Focus Timer App**

- Models the Pomodoro technique developed by Francesco Cirillo to enhance focus, increase decision awareness, and alleviate mental fatigue
- Maintain checklist of tasks and projects utilizing Apple's CoreData framework
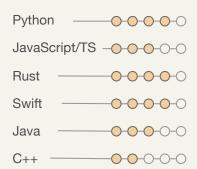- Unique UI to drag and drop tasks to an interval timer progress bar

## Skills

Machine Learning • React • Node.js • Express.js • MongoDB • GraphQL • PyTorch • Keras • AutoML • HuggingFace APIs • Transformers • Recurrent Neural Networks (RNNs) • iOS Development • SwiftUI • UIKit • CoreData • Agile / Scrum • Clean Code • Test-Driven Development • CI/CD • Unix command line • SQL

## Links

github.com/po-gl

linkedin.com/in/porter-glines

porterglines.com

## Languages

Python — ●●●●○
JavaScript/TS — ●●●○○
Rust — ●●●●○
Swift — ●●●●○
Java — ●●●○○
C++ — ●●○○○

## Relevant Coursework

Computational Theory

Advanced Algorithms

Machine Learning

Data Science

Software Testing

Empirical Software Engineering