

# 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)

### Thoughts: Mind Map Generating Web App using GPT-4

- Automatically generate mind maps using OpenAI's GPT-4 function calling API
- Organize and manipulate nodes with a performant node-based editor
- Written in *TypeScript* using *Node.js*, *Express.js*, *React*, and *Vite*

### Constrained Hidden Markov Model (Thesis)

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

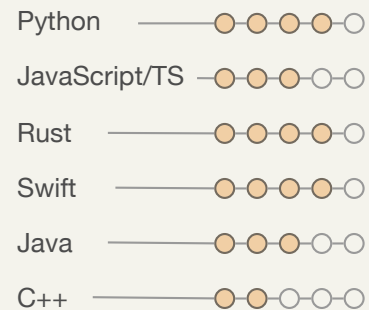
## Skills

Machine Learning • React • Node.js • Express.js • MongoDB • RESTful APIs  
• GraphQL • Vite • Docker • 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](https://github.com/po-gl)  
[linkedin.com/in/porter-glines](https://linkedin.com/in/porter-glines)  
[porterglines.com](https://porterglines.com)

## Languages



## Relevant Coursework

Computational Theory  
Advanced Algorithms  
Machine Learning  
Data Science  
Software Testing  
Empirical Software Engineering