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 OpenAl's GPT-4 function calling API
- · Organize and manipulate nodes with a performant node-based editor
- Written in TypeScript using React, Node.js, Express.js, and MongoDB

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 • Docker • Kubernetes • PyTorch • Keras • HuggingFace APIs •

- Transformers · Recurrent Neural Networks (RNNs) · iOS Development · SwiftUI
- UIKit · CoreData · Agile / Scrum · Clean Code · Test-Driven Development
- · CI/CD · SQL · Unix command line

Links

github.com/po-gl linkedin.com/in/porter-glines porterglines.com

Languages

Python ——	0-0-0-0
JavaScript/TS	-0-0-0-0
Rust	-0-0-0-0
Swift	0-0-0-0
Java ———	0-0-0-0
C++	0-0-0-0

Relevant Coursework

Computational Theory
Advanced Algorithms
Machine Learning

Data Science
Software Testing

Empirical Softwar

Empirical Software Engineering

Database Design and Implementation