Porter Glines

208-380-2898 | porterglines@gmail.com

Master of computer science graduate with an emphasis on machine learning and computational theory. 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 ML models in **Python** and **Rust**
- Spearheaded research projects resulting in **4 peer-reviewed publications**
- Tutored and graded upper-division and graduate courses *Computational Theory*, *Advanced Algorithms*, and *Machine Learning*

IT Student Supervisor ● Idaho State University
Oct 2019 - May 2022 ● Pocatello, ID
- Updated PowerShell scripts to facilitate labs' transition to Windows 10
- Supervised and trained IT Support Technicians
- Applied in-depth knowledge of Windows/MacOS to support faculty and staff

Projects *(hosted on GitHub)*

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
- Unique UI to drag and drop tasks to an interval timer progress bar

Constrained Hidden Markov Model *(Thesis)*
- Generated musical sequences styled after Bach chorales
- Written in *Rust* with high test coverage (85%)
- Results compared favorably against an Anticipation-RNN (recurrent neural network)
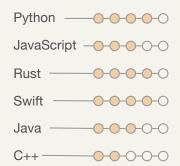
Skills

Machine Learning • React • Node.js • Express.js • MongoDB • GraphQL • AI • Transformers • Recurrent Neural Networks (RNNs) • Convolutional Neural Networks (CNNs) • iOS Development • SwiftUI • UIKit • CoreData • Scrum • Clean Code • Test-Driven Development • GitHub Actions CI/CD • Unix command line • SQL

Links

github.com/po-gl

linkedin.com/in/porter-glines

porterglines.com

Languages

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

Relevant Coursework

Computational Theory

Advanced Algorithms

Machine Learning

Data Science

Software Testing

Empirical SWE