Porter Glines

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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***
- Awarded for presentation at *i-ETC* on a constrained generative model
- Presented mnemonic tool at *ICCC* made with Django and **C++** backend
- 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

Languages

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

Relevant Coursework

Computational Theory

Advanced Algorithms

Machine Learning

Data Science

Software Testing

Empirical SWE