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 • Al • 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

Relevant Coursework

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