Porter Glines

208-380-2898 | porterglines@gmail.com

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** which led to **4 peer-reviewed publications**
- Spearheaded research projects resulting in ISU establishing a place at the *International Conference on Computational Creativity* (ICCC) as well as a local conference (i-ETC)
- Tutored and graded 186 students in 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 university labs' Windows version transition
- 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)*

Pomodoro: iOS/watchOS Tasks and Focus Timer App
2023 - 2024

- Closely models the Pomodoro technique developed by Francesco Cirillo to enhance focus, increase decision awareness, and alleviate mental fatigue
- Maintain checklist of tasks/projects and reflect on results in data visualizations
- Written in *Swift* using *SwiftUI*, *UIKit (supplemental)*, *Core Data (CloudKit)*, and *SwiftUI Charts* with a back end notification service written in *Rust* using *Tokio* concurrency

Thoughts: Mind Map Generating Web App using GPT-4
2023

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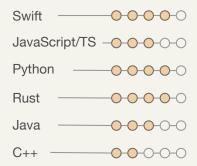
Skills

SwiftUI • UIKit • Core Data • SwiftUI Charts • Combine • Swift Concurrency • Dispatch (GCD) • XCTest • RESTful APIs • GraphQL • MongoDB • SQL • Functional Reactive Programming • React • Node.js • Express.js • Docker • Machine Learning • Agile / Scrum • Clean Code • Test-Driven Development • CI/CD • Unix command line • Git

Links

github.com/po-gl

linkedin.com/in/porter-glines

porterglines.com

Languages

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

Relevant Coursework

Computational Theory

Advanced Algorithms

Data Structures

Software Testing

Machine Learning

Empirical Software Engineering

Database Design and Implementation