

Porter Glines

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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 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)

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 utilizing Apple's Core Data framework backend
- Unique UI to drag and drop tasks to an interval timer progress bar

Dialogue: macOS/iOS ChatGPT App

- Chat interface connecting to OpenAI's GPT-4 API for natural language generation
- Keep track of multiple threads with automatic thread descriptions via GPT-3.5
- Markdown rendering of messages (lists, tables, code syntax, etc.)

Thoughts: Mind Map Generating Web App using GPT-4

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

Skills

SwiftUI • UIKit • Core Data • 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

Machine Learning

Software Testing

Empirical Software Engineering

Database Design and Implementation