Porter Glines

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porterglines.com (portfolio) | github.com/po-gl | linkedin.com/in/porter-glines

Master of computer science graduate with an emphasis on machine learning. Being diligent in my work and dedicated to treating software engineering as a craft led me to graduate at the top of my class and receive an outstanding graduate student award. Well-versed in various programming languages, including C++, Rust, Swift, Python, and Typescript.

Education

Master of Computer Science Idaho State University Pocatello, ID May 2022

- 4.0 GPA, Phi Kappa Phi, Outstanding Graduate Student 2021-2022

Bachelor of Computer Science Idaho State University Pocatello, ID Dec 2019

- 3.6 GPA Graduated *cum laude* with a minor in *Mathematics*

Experience

Research and Teaching Assistant Idaho State University Pocatello, ID Oct 2019 - May 2022

- Spearheaded research on generative machine learning in ***Rust*** and ***Python***, leading to ***4 peer-reviewed publications***
- Awarded Graduate Teaching Assistantship 2020-2021 and 2021-2022
- 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 Pocatello, ID Sep 2016 - Oct 2019

- Led university labs' Windows version transition through work on PowerShell scripts
- Successfully managed and resolved IT issues for staff and faculty, demonstrating strong ***problem-solving***, ***debugging***, and ***troubleshooting skills***
- Implemented training programs that improved the technical knowledge of supervised technicians

Projects *(hosted on GitHub)*

Constrained Markov Model 2019 - 2021

- A high-performance implementation of a non-homogeneous Markov model presented at ICCC 2019 that demonstrates a natural language task: mnemonic device generation
- Written in *C++* using a *thread pool pattern* for concurrency, *IPC*, and the *Boost* library
- In 2021, I wrote an updated and extended version amounting to a novel algorithm in *Rust* for my master's thesis

Pomodoro: Focus Timer iOS/watchOS App 2023 - 2024

- App Store ready app that closely models the Pomodoro technique with a unique drag-and-drop UI
- Maintain checklist of tasks/projects and reflect on results in data visualizations
- Uses a back-end service written in *Rust* using *Actix* and *Tokio* concurrency that can handle 200K concurrent requests on the most affordable DigitalOcean VM as verified by *K6* load testing

Relevant Coursework

Advanced Algorithms • Data Structures • Computational Theory • Database Design and Implementation • Networking and Virtualization • Software Testing • Machine Learning • Applied Neural Networks • Data Science • Data Visualization

Skills

C++ • Rust • Python • Swift • JavaScript/TS • Java • C# • RESTful APIs • GraphQL • PostgreSQL • MongoDB • Docker • Kubernetes • Object-Oriented Programming (OOP) • Functional Reactive Programming (FRP) • React • Node.js • HTML/CSS • iOS/macOS Development • Machine Learning • Agile Methodologies • Clean Code • Test-Driven Development (TDD) • CI/CD • Linux • Unix command line • Git