

# TIMOTHY MALONEY

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## EDUCATION

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### Portland State University

Jan 2020 - June 2022

*Bsc Computer Science*

- Low level programming

### Portland Community College

Sept 2018 - Jan 2020

*PSU Transfer*

- Computer Security

## LANGUAGES

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Rust ● ● ● ●

C ● ● ● ○

C++ ● ● ● ○

Python ● ● ● ○

Java ● ● ○ ○

## ADJECTIVES

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Persistent Debugger

Technical Generalist

Strong Communicator

Project Leader

Concurrent & Parallel

Apprentice Open-Sourceror

Codebase Adventurer

Performance Analyzer

Documentation Writer & Researcher

## EXPERIENCE

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### Rust Compiler

- Added support for inline assembly on IBM's s390x architecture.
- Investigated performance implications of computing redundant debugging information; showed that caching led to negligible time improvements.
- Currently organizing all documentation on parallelism in the compiler.

### Ruperf

- Performance analysis tool; emphasizes being informative and versatile.
- Developed a safe API for interacting with Linux performance event subsystem.
- Improved timer accuracy using intra-process communication.
- Added support for gathering cache-event statistics.
- Creator and maintainer of project's website.

### Kartina

- Collaborative open-source art project combining deep-house and GPU shading.
- Plays song and renders image in parallel.
- Uses decoded mp3 data to compute pixel colors.

### PSU Computer Action Team

Aug 2020 - Aug 2021

- First of 2020-21 cohort to hack into the "catacombs"; an area for experimentation with hardware and hacking.
- Built a script for gathering information on PSU windows machines and users.
- Information such as who is logged onto what machine, what processes are they running, etc.