

## Summary

Computer scientist with open-source contributions in Python, C++, and R. Previously a university instructor who taught classes on computer architecture and how to teach computer science. Significant experience in working with technical and non-technical clients and writing clear documentation for both groups.

## Skills

### Programming Languages

- Python
- C/C++
- R

### Tools and Technologies

- Linux/WSL/Bash
- Version control (Git)
- Docker
- Static site generators (Jekyll)
- Markup (MD, YAML, RST)
- $\LaTeX$

## Experience

**DevOps Engineer** 09/2021 - Present  
Intel Corporation

**Associate in Computer Science** 08/2018 - 06/2020  
Department of Computer Science, UC Davis

- Instructor of record for introductory computer architecture classes for two quarters.
- Instructor of record for computer science pedagogy seminars for four quarters.
- Responsible for course administration, including lecturing, grading, and developing course material.

## Projects

**perona.dev** 10/2020 - Present  
<https://perona.dev/projects/perona-dev>

- Created my personal website from scratch with Ruby and Jekyll.
- Moved hosts from GitHub Pages to GitLab Pages and set up my own CI/CD script.
- Wrote retrospectives of my past projects aimed at both technical and non-technical audiences.

**BART Passenger Heatmap** 02/2019 - 07/2021  
<https://perona.dev/projects/bart-passenger-heatmap>

- Developed an R/Shiny application to display San Francisco BART passenger data.
- Used GIS data to visualize the network and combined it with parsed passenger data to color polylines.
- Added additional subsetting options and input validation to make application more robust.

**Logisim Evolution Autograder** 12/2019 - 03/2020  
<https://perona.dev/projects/logisim-evolution-autograder>

- Developed an autograder to grade Logisim Evolution lab assignments on Gradescope grading platform.
- Wrote Bash scripts and Dockerfile equivalents to generate Docker containers for deployment.
- Deployed containers successfully graded 7000+ submissions in a class of 200 students.

## Education

**University of California, Davis**  
Davis, California

- Computer Science, MS 09/2016 - 06/2019
- Computer Science and Engineering, BS 09/2012 - 06/2016