

# Brian Gunnarson

Software Engineer with experience leading a project designed for running large-scale simulations on HPC clusters and developing a professional website used by the University of Oregon.

## EXPERIENCE

### Lawrence Livermore National Laboratory (LLNL) — Software Engineer I-II

OCTOBER 2022 - PRESENT

**Merlin (Workflow Orchestration)**, <https://github.com/LLNL/merlin>

Lead developer on this workflow orchestration tool

Research and develop tools for workflow integration on HPC systems

Architect object oriented solutions in Python to massively parallel coding challenges

Create automated unit and integration test suites

Provide support to users in areas such as:

- Computational physics
- Protein binding
- Nuclear fusion

**Sina (Data Management)**, <https://github.com/LLNL/Sina>

Assist on code integration with Sina C++

### Inquire — Full Stack Developer

FEBRUARY 2021 - SEPTEMBER 2021, <https://inquiremb.com>

Integrated backend resources with the Flask framework to communicate with our frontend API and store data in our MongoDB database

Created frontend components using React

Maintained a RESTful API to help implement CRUD operations

Worked with a team of 4 other software engineers in agile/scrum sprints

More information can be found at <https://github.com/5-Bits-in-a-Byte/inquiremb>

### University of Oregon — Learning Assistant

SEPTEMBER 2020 - MARCH 2022

Helped teach Python and C basics, object oriented programming, and an introduction to data structures to students

Increased my ability to review, understand, and develop code

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<https://briangunnarson.com>

## SKILLS

HPC software.

Object oriented programming.

Parallel architectures.

## AWARDS

**WSC/SD Silver Award** for consistent and high-quality development on Merlin

**Mercer Family Foundation Grant Recipient** for research on solar energy

**Phi Beta Kappa Member** for continued academic excellence

**Magna Cum Laude Honors** from the University of Oregon for graduating in the top 5% of my class

**Multiple Dean's List Honors** for academic merit

## LANGUAGES & FRAMEWORKS

React/JavaScript

Python/Flask/Celery

HTML/CSS

C/C++

MongoDB/Some SQL Experience

GitHub/GitLab

Jira/Atlassian Suite

Docker

RabbitMQ/Redis

Jupyter Notebooks

## EDUCATION

**University of Oregon, Eugene, OR** — *B.S. Computer Information Science*

SEPTEMBER 2017 - MARCH 2022

Minors in **Computer Information Technology** and **Mathematics**

GPA: 3.91 Overall, 3.97 Major

## REFERENCES

Bryan Garcia — *garcia299@llnl.gov*

Coworker at LLNL

Cooper Hansen — *hansen82@llnl.gov*

Coworker at LLNL

Patrick Miles — *miles30@llnl.gov*

Coworker at LLNL