
Cell: (405) 625-4032 | MatthewWhitlock.MW@gmail.com | linkedin.com/in/matthew-whitlock

Education

Ph.D. Program, Computer Science

August 2019

Georgia Institute of Technology; Atlanta, GA

Bachelor of Science, Computer Engineering

May 2019

Minor: Computer Science

GPA: 3.87

Oklahoma State University; Stillwater, OK

Work Experience

HPC Resilience Intern

6/2017-Current

Sandia National Labs; Livermore, CA

- Implement and verify features for a simulator of resilient-AMT runtimes
- Researched and optimized distributive collectives for an AMT runtime
- Published papers at IPDPS 2018 and Euro-Par 2019

High Performance Computing Class TA

8/2016-12/2016

Oklahoma State University Math Department; Stillwater, OK

- Tested lessons/code for accuracy
- Mentored students with concepts and implementation
- Assisted with running Software Carpentry lessons for students and faculty

Residential Life Computer Consultant

10/2015-10/2017

Oklahoma State University Residential Life; Stillwater, OK

- Repaired physical computer damage and replace parts
- Debugged and installed computer software
- Quarantined and removed malware, adware, and spyware

Areas of Expertise

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- | | | |
|--------|----------------------------|------------------|
| • C++ | • Python | • Git |
| • Java | • MPI | • Verilog |
| • C | • Legion (AMT parallelism) | • OpenMP/OpenACC |

Relevant Activities

Founding President

4/2016-4/2018

OSU Cyberinfrastructure Association

- Directed lessons on building and configuring a cluster computer
- Wrote and optimized 2nd place MPI competition code

Certified Instructor

7/2017

Software Carpentry Foundation

- Volunteer teaching lessons on Bash, Git, Python, R, and more
- Completed three-day certification course in instructing these lessons

Conference Attendance

Misc

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| • Professional development at the International Conference for High Performance Computing | 2016-2018 |
| • Workshop presenter at the International Parallel and Distributed Processing Symposium | 2018 |
| • Panelist at the Coalition for Advancing Digital Research and Education | 2017 |