Zachary Wayne Parchman

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Objective

I seek to obtain full time employment.

Technical Skills

- Languages: C, C++, Java, Python 2 and 3, x86 Assembly, Rust
- Tools and Libraries: C++ Standard Template Library, MPI, Cuda, OpenMP, Git and SVN

Education

Bachelor of Science in Computer Science, December 2013
Tennessee Technological University, Cookeville, Tennessee
Graduated with a GPA of 3.08 on a 4.0 scale
Courses completed:

Design of Algorithms	Operating Systems	Artificial Intelligence
Databases	Computer Networking	Parallel Programming

Master of Science in Computer Science, Currently Pursuing
Tennessee Technological University, Cookeville, Tennessee
Current GPA 3.47 on a 4.0 scale
Courses completed:

Internet Security	Internet Protocols
Internet Algorithmics	High Performance Computing

Experience

Research Programmer Intern May 2016 - May 2017
Oak Ridge National Laboratory / ORISE, Oak Ridge Tennessee I Designed and implemented a new programming model for heterogeneous large scale systems as part of a team.

Research Programmer Intern May 2015 - August 2015
Oak Ridge National Laboratory / ORISE, Oak Ridge Tennessee I planned and executed the conversion of benchmarking programs to use an experimental modification to MPI to allow for fault tolerance.

Teacher's Assistant January 2014 - May 2016
Tennessee Technological University, Cookeville, Tennessee I graded and tutored for computer science classes to assisted a professor in college courses.

Publications

- Zachary W. Parchman, Ferrol Aderholdt, and Manjunath Gorentla Venkata. Sharp hash: A high-performing distributed hash for extreme-scale systems. In *2017 IEEE International Conference on Cluster Computing, CLUSTER 2017, Honolulu, HI, USA, September 5-8, 2017*, pages 647–648, 2017
- Manjunath Gorentla Venkata, Ferrol Aderholdt, and Zachary W. Parchman. Sharp: Towards programming extreme-scale systems with hierarchical heterogeneous memory. In *46th International Conference on Parallel Processing Workshops, ICPP Workshops 2017, Bristol, United Kingdom, August 14-17, 2017*, pages 145–154, 2017
- Zachary W. Parchman, Geoffroy Vallée, Thomas Naughton, Christian Engelmann, David E. Bernholdt, and Stephen L. Scott. Adding fault tolerance to NPB benchmarks using ULFM. In *Proceedings of the ACM Workshop on Fault-Tolerance for HPC at Extreme Scale, FTXS@HPDC 2016, Kyoto, Japan, May 31, 2016*, pages 27–34, 2016

References

Dr. Thomas Naughton
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UT-Battelle / Oak Ridge National Laboratory
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Relationship: Mentor for 2015 internship

Dr. Manjunath Venkata
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Relationship: Mentor for 2016 internship