

Aditya Pakki

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Education

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| Ph.D. Computer Science
<i>Advisor: Prof. Kangjie Lu</i> | University of Minnesota - Twin Cities
<i>GPA: 4.0 / 4.0</i> | Minneapolis, MN
<i>Aug 2017 – present</i> |
| – Research Interests: Computer Systems, System security, Machine Learning. | | |
| M.S. Computer Science
<i>Advisor: Prof. Martin Berzins</i> | University of Utah
<i>GPA: 3.63 / 4.0</i> | Salt Lake City, UT
<i>Aug 2014 – Aug 2016</i> |
| B.Tech. Information Technology
<i>Advisor: Prof. P. Gopalakrishna</i> | Jawaharlal Nehru Techn. University
<i>Score: 82.37 / 100</i> | Hyderabad, India
<i>Sep 2007 – Jun 2011</i> |
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Technical Skills

Languages: C++11, Python, C, L^AT_EX, shell scripting, MPI, OpenMP, CUDA.

Tools & Environments: Linux, SVN, Git, Vim, MATLAB, Cmake, GDB, GCC tool chain, ROOT.

Past Experience: Go, Java, JavaScript.

Experience

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| University of Minnesota
<i>Graduate TA for Discrete Structures</i> | Minneapolis, MN
<i>Aug 2017 - present</i> |
| Los Alamos National Laboratory
<i>Graduate Research Assistant</i> | Los Alamos, NM
<i>May 2017 – Aug 2017</i> |
| – Supervised by Dr. Jozsef Bakosi & Dr. Christoph Junghans, in the Data Science at Scale summer school. | |
| – Performed data analysis by answering various questions in fluid dynamics along with visualization. | |
| Goldman Sachs, Inc.
<i>Contractor Technology Specialist</i> | Salt Lake City, UT
<i>Dec 2016 - May 2017</i> |
| – Ensure that the organization production & QA computing infrastructure is running and healthy. | |
| – Wrote scripts in shell and SQL queries for various databases flavors to resolve job failures and load issues. | |
| Scientific Computing and Imaging Institute
<i>Graduate Research Assistant</i> | Salt Lake City, UT
<i>May 2015 - Aug 2016</i> |
| – Added resiliency capabilities to Uintah Computation Framework using C++11 with Boost libraries & STL. | |
| – Implemented task re-execution capability for core failures and data bounded cubic interpolation routines for node failures. Presented partial results at RESPA'15 workshop at SC'15. | |
| University of Utah
<i>TA for Introduction to Scientific Computing & Object Oriented Programming</i> | Salt Lake City, UT
<i>Aug 2014 - May 2015</i> |
| Automatic Data Processing, LLC
<i>Software Developer</i> | Hyderabad, India
<i>Aug 2011 - Jun 2014</i> |
| – Performed query optimization, migrated queries from DATACOM to DB/2, tuned indices, and used Kanban for production issues. | |
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Academic Projects

- Mining system logs to predict failures:** Implemented Apriori and clustering algorithms, using Python on supercomputer logs to compare the efficiency of detecting failures.
- CUDA based P3DFFT algorithm:** Worked on migrating the C based library API to CUDA and measured performance improvements by running on cluster of NVIDIA Tegra TK1 GPUs.