Aditya Pakki

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Education

• University of Utah

Salt Lake City, UT

School of Computing, M.S. Computer Science

2014 - Aug 2016

- Project: An Efficient Method for Component Failure Resiliency in Uintah. Advisor: Prof. Martin Berzins.

• Jawaharlal Nehru Tech. University

Hyderabad, India

Bachelor of Technology, Information Technology

2007 - 2011

- Project: Implementing secure message transmission across MANETs. Advisor: Prof. P. Gopalakrishna.

Technical Skills

Languages: C++, Python, C, Java, LATEX, shell programming, MPI, OpenMP, CUDA.

Tools & Environments: Linux, SVN, Git, Vim, Eclipse, MATLAB, Autotools, Cmake, GDB, GCC, ROOT.

Past Experience: Go, JavaScript, COBOL, XML, JCL.

Experience

• Los Alamos National Laboratory

Los Alamos, NM

May 2017 – Aug 2017

Graduate Research Assistant

- Supervised by Dr. Jozsef Bakosi & Dr. Christoph Junghans, in the Data Science at Scale summer school.
- Conducting data analysis on fluid dynamics using ROOT framework and exploring possible visualization capabilities.

• Goldman Sachs, Inc.

Salt Lake City, UT

Contractor Technology Specialist

Dec 2016 - May 2017

- 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

Salt Lake City, UT

Graduate Research Assistant

May 2015 - Aug 2016

- 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

Salt Lake City, UT

Graduate Teaching Assistant

Aug 2014 - May 2015

- TA for undergrad courses Introduction to Scientific Computing & Object Oriented Programming.
- Helped students with MATLAB, Python and Java programming as well as in using NumPy, SciPy numerical libraries in Linux environment.

• Automatic Data Processing, Inc.

Hyderabad, India

Software Developer

Aug 2011 - Jun 2014

 Performed query optimization, migrated queries from DATACOM to DB/2, tuned indices, and used Kanban for production issues.

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.