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OBJECTIVE

Seeking summer internship in Software Engineering for the period of May-Aug 2015.

EDUCATION

Georgia Institute of Technology, Atlanta, GA

Aug 2014 to May 2016

Master of Science in Computer Science Specialization: Systems Courses: Advanced Operating Systems, HPPC Tools & Applications

Indian Institute of Technology, Roorkee, India

May 2014

Bachelor of Technology in Computer Science & Engineering CGPA: 8.872 on a scale of 10 Courses: Advanced Computer Architecture, Network Programming in Unix, Data Mining & Warehousing

TECHNICAL STRENGTHS

Programming Languages: C, C++, Java, Python, PHP, HTML, Javascript

Databases: MySQL, PostgreSQL **Tools**: Git, Vim, Visual Studio, Eclipse

EXPERIENCE

SDE Intern, Amazon India Development Centre, Hyderabad, India

May 2013-July 2013

- Added selective audit feature to the Event Bus service, based on Publisher-Subscriber model, whereby
 events are stored in AWS S3 and Cloud Search is used for searching those events. Also used AWS SNS
 and SQS for sending and receiving the events.
- Developed and deployed a Self-service tool to manage subscriptions and a user interface for searching and republishing the events. The service is developed using Java and JSP was used for the backend.

Intern, Centre for Development of Advanced Computing, Pune, India

May 2012-July 2012

- Worked with the High Performance Computing group to develop low level benchmarks for health monitoring of GPU devices on a message passing GPU cluster with NVIDIA GPUs and AMD APUs.
- Developed suites of Device Query, Bandwidth measurement, Matrix computation performance analysis programs using MPI and CUDA/OpenCL programming.

PROJECTS

Prediction and Analysis of Complex Data Using Data Mining Techniques

Undergraduate Thesis

- Designed a technique to give product recommendations to a new user based on the relationship between user ratings of the products and the user characteristics.
- Used unsupervised learning methods for clustering similar users. It was implemented in Python.

Anomaly Detection and Similarity Search in Time Series Data

Research Project

• Developed a technique to detect anomalous time series among multiple time series based on the idea that similar time series would have similar variation in their slopes in corresponding time intervals.

Lectures & Tutorials Web Development

• A web application for faculty to upload lectures, tutorials, exam papers and its solutions for students to access over the intranet. Developed using PHP and MySQL. One of the most used apps in IIT Roorkee.

Kriti Web Development

- A web application for students to upload original paintings, photographs, poems and essays and get feedback from their peers at IIT Roorkee. Videos and e-magazines can also be uploaded.
- Developed using Python for the backend and PostgreSQL as the database. Integrated jwplayer for playing videos and flex paper viewer for displaying e-magazines.

RESEARCH PUBLICATION

Agarwal, Kapil, et al. "Anomaly Detection and Similarity Search in Neutron Monitor Data for Predictive Maintenance of Nuclear Power Plants." Advanced Computing, Networking and Security (ADCONS), 2013 2nd International Conference on. IEEE, 2013.