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EDUCATION

Masters in Computer Science — **UC San Diego** — **Expected : March 2018**

- Graduate Teaching Assistant for Operating Systems, Parallel Computing & Graduate Parallel Computing.

Bachelors in Computer Science — **Manipal Institute of Technology** — **August 2015**

- Thesis: Performance analysis of computer vision applications on CPUs, GPUs & Intel MIC co-processors.

EMPLOYMENT / INDUSTRY EXPERIENCE

Software Engineering Intern — **Visa Inc** — **July 2017 - Present**

- *Secure Data Services* — *Manager: Mr. Suresh Pulikara.*
  Lead the design & development of sqoop ETL tool integration with the custom built security library for encryption/decryption of PAN and PII data. Integrated the encryption functionalities to the sqoop mapper classes to allow for cryptographic operations in a distributed and parallel fashion. Lead the application into production and provided support for adoption.

- *Hadoop Cluster Performance Improvement* — *Manager: Mr. Suresh Pulikara.*
  Performed a study of the CPU utilization patterns, cluster configurations and scheduling algorithms at Visa Data Platform's Dev, Q/A and Production Clusters. Analyzed the usage patterns and detected the cause of peak utilization. Optimized the process in the YARN scheduler and validated the solution by simulation of workloads.

Software Engineering Intern — **Microsoft Corporation** — **Summer 2014**

MCS India Delivery Dashboard — *Manager: Mrs Divya Sampath.*

- Built an analytical dashboard that does real-time tracking of KPIs, and reports the metrics and statistics to the delivery team for actionable decision making.Implemented the web-analytical layer and helped deploy the changes on the Server.

RESEARCH EXPERIENCE

Research Assistant — **Supercomputing Centre, IISc** — **Jan 2015 - April 2016**

- *Machine Learning approaches to task partition the OpenCL kernels* — *Advisor: Prof. R. Govindarajan.*
  Analyzed and implemented a classification based machine learning model to determine the best device (CPU/GPU) or combination of devices(CPU+GPU) for the OpenCL kernel execution. Stochastic predictive models where compared against hierarchical classification using Support Vector Machines.

Research Intern — **Carnegie Mellon University** — **Winter 2014**

Voice Forensics — *Advisor: Prof. Rita Singh & Prof. Bhiksha Raj.*

- Developed a Voice Forensic System with a combination of ANNs, Classifiers and Regression Algorithms that identifies bodily features and demographic information about a miscreant from the voice evidence database. The system predicts the gender of the miscreant with an accuracy of 95.2% and height with an error of 6.5cm.

LEADERSHIP & AWARDS

- Winner of the Visa Data Platforms Global Intern Hackathon held at Palo Alto, California. **2017**
- Recipient of the GE Foundation Scholar-Leader Scholarship, awarded to 12 students in India. **2015**
- Best Project Award, for Project Voice Forensics, CMU IPTSE Program. **2014**
- Featured in Top 10 Apps, Microsoft App Fest, Manipal for the App named Junior Einstein. **2014**

SKILLS

- **Languages**:C, C++, Java, Python, C#.
- **Others:** MySQL, PostgreSQL, HDFS, Map-Reduce, Hive, Sqoop, Spark, Eclipse, Maven, Numpy/Scipy, Linux/Unix.