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TEJESWINI. SUNDARAM

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EDUCATION

Masters in Computer Science — **UC San Diego** — **Expected : December 2017**

- Graduate Teaching Assistant for the courses CSE 120 Operating Systems & CSE 160 Parallel Computing at UC San Diego.

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

- Thesis: Accelerated Computer Vision Using Heterogenous Coprocessors. Advisor: Prof. R. Govindarajan.

EMPLOYMENT & TECHNICAL EXPERIENCE

Sr. Software Engineering Intern — **Visa, Palo Alto.** — **July 2017 - Present**

- *Secure Data Services* — *Manager: Mr. Suresh Pulikara.*
  Design & development of sqoop-sds library integration for encryption and decryption of PAN and PII data. Successfully integrated the remote and local encryption methods to the sqoop mapper classes to allow for data in-transit cryptographic operations.
- *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.

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.

Summer 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 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

- Recipient of the Visa Data Platforms Global Intern Hackathon event held at Palo Alto, California. **2017**
- Recipient of the GE Foundation Scholar-Leader Scholarship, awarded to 12 students in India. **2013-15**
- Recipient of the AICTE Scholarship, awarded by the Government of India. **2011-15**
- 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**
- Chairperson of IEEE Student Branch Manipal, lead a student organization of 300+ members. **2013-14**

SKILLS

- **Programming Languages**: Java, Python, C, C++, OpenCL, CUDA, MPI, OpenMP.
- **Tools/libraries**: MySQL, Map-Reduce, Hadoop, Hive, Pig, Kafka, HBase, Sqoop, Spark.
- **Others**: Git/Stash, Numpy, OpenCV, Eclipse, Maven, Scipy, Linux, Unix, MacOS.