3927 Miramar St Apt G
La Jolla CA 92037

TEJESWINI SUNDARAM

(858) 729-3792
tsundara@ucsd.edu

Objective

Seeking Software Development/ Software Engineering internship opportunities for summer 2017.

Education

San Diego, CA **University of California** **Sept 2016 - March 2018 (Expected)**

- M.S. in Computer Science and Engineering.

Manipal, India **Manipal Institute of Technology** **Aug 2011 - May 2015**

- B.Tech. in Computer Science and Engineering. GPA: 9.41/10.00. Rank: 4/250

Employment & Technical Experience

Project Assistant **Supercomputing Centre, IISc** **May 2015 - April 2016**

Machine Learning approaches to task partition the OpenCL kernels

- 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 or Regression models where compared against the hierarchical classification approach with Support Vector Machines (SVM).

Research Intern **Supercomputing Centre, IISc** **Jan 2015 - May 2015**

Accelerated Computer Vision Using Heterogeneous Coprocessor

- Comparative study of Accelerated Computer Vision Applications on CPUs, GPUs and Intel MIC-Xeon Phi.
- Each (co-)processors behaved differently to the type of parallelism exploited and the data access patterns.The study showed that the MIC performed comparable to GPUs when regular operations and computation patterns where used and the GPU is efficient for irregular data access and atomic operations, as expected.

Research Student **Carnegie Mellon University** **Winter 2014**

Voice Forensics

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

Software Engineer, Intern **Microsoft Corporation** **Summer 2014**

MCS India Delivery Dashboard

- Built an analytical dashboard that would help in the real-time tracking of KPIs, and provide the key metrics and statistics to the delivery team for actionable decision making.
- Implemented the web-analytical layer of the project and helped deploy the changes on the Sharepoint Server. The visibility to the key metrics would lead to a significant time savings of 10-20% for the delivery team (about $600,00/year).

Additional Experience and Awards

- **GE Foundation Scholar-Leader Scholarship Award, 2013-15.** was among the top 12 engineering students in the country to receive this global scholarship and award from the GE Foundation, USA.
- **Best Project Award, CMU IPTSE 2014.** Project *Voice Forensics* was one among the top 2 projects awarded.
- **Best App, Microsoft App Fest, 2014.** For the App named *Junior Einstein*. Finished as the Top 10 apps of the App Fest.
- **AICTE Scholarship, 2011-15.** awarded for my performance in the entrance exam, and to fund my 4-year college degree.
- **Chairperson, IEEE Student Branch Manipal, 2013-14.** lead a student organization of 300+ members.

Languages and Technologies

- C++; C; Java; Python, OpenCL; CUDA; OpenCV; Git, C#; .NET; SQL; PHP; JavaScript.