3927 Miramar St #G
La Jolla CA - 92037

TEJESWINI. S

(858)-729-3792

tsundara@ucsd.edu
linkedin.com/in/tsundara
github: tejeswinisundaram

Objective: Seeking Software Engineering Intern Position for Summer 2017.

EDUCATION

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

- Coursework: Algorithms, Compilers, Software Engineering, Data Science, Artificial Intelligence and Web Mining.

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

- Related Coursework: Algorithms, Mathematics, Software Engineering, Machine Learning, Neural Networks, Data Mining, Parallel Computing, Computer Architecture, Operating Systems, Distributed Computing.

EMPLOYMENT & TECHNICAL EXPERIENCE

Software Engineer, 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.

Student Scholar **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.

Project Staff **HPC Lab, Indian Institute of Science** **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.

- *Accelerated Computer Vision Using Heterogenous Coprocessors* *Advisor: Prof. R. Govindarajan.*
  Performed a comparative study of accelerated computer vision applications (OpenCV) on CPUs, GPUs and Intel MIC-Xeon Phi. 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.

SELECTED PROJECTS

- LLVM Based Code Analysis and Optimization Framework. **(C++ and LLVM)** **2017**
- Recommender System for Amazon shopping data.**(Python)** **2017**
- Static and Dynamic Video Summarization using clustering techniques. **(C++)** **2015**
- Junior Einstein, Windows App for K-12 kids. **(Windows App Dev)** **2014**
- Employee Internal Communication system. **(Java)** **2013**
- Scavenger, Frugal Smart Waste Management System Application. **(C++, Android)** **2012**

LEADERSHIP & AWARDS

- Teaching Assistant for CSE 160 Parallel Programming under Prof. Greg Kesden at UC San Diego. **Present**
- 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**: C, C++, Python, Java, Perl, Ruby, OpenCL, CUDA, MPI, OpenMP.
- **Tools/libraries**: Git, Numpy, OpenCV, Eclipse, Scipy, NLTK. **Others**: MySQL, HTML, CSS, Linux, Unix, MacOS.