

Skandan Chockalingam

Software engineer at Apple Inc.

Experience

Software Engineer at Apple

October 2015 - Present

Intern - CUDA Programmer at University of Bremen

June 2013 - August 2013 (3 months)

I designed a parallel algorithm in CUDA (NVIDIA's GPU language) for collision detection of a robotic arm fitted with Microsoft Kinect. The pcl file output by the Kinect contained millions of point coordinates in space. I implemented hashing for these points on the GPU and utilized CUDA's THRUST libraries to sort these points. The sorted points were put into their respective buckets on the GPU. Given a point in 3D space my algorithm had to return all the points lying within a particular radius in 3 dimensional space. I processed the query with a coordinate point and a radius, with 3D thread blocks executing in parallel on the GPU to determine for the collision condition and returned the points that lie within the radius.

Intern - Android Developer at Komparify

May 2012 - June 2012 (2 months)

I developed an android app that would suggest the best network provider in an area based on crowd sourcing user info such as signal strength, location area code, gps co-ordinates etc. The app asynchronously collects these data at regular intervals by running a service at the background. I used APIs like GPS and google MAPs.

The app maintains a local database to store the data and then uploads the collected data to a remote database. When a new user requests for the best network in a particular area, his current location is extracted with the GPS and queried to the server. The remote server responds with information regarding the nearest tower and their signal strengths. This information is displayed on the Map where further details about the networks can be found out.

Education

Stanford University

Individual courses for Credit , Distributed systems, 2016 - 2016

Carnegie Mellon University

Master of Science in Information Technology, eBusiness Technology, 2014 - 2015

College of Engineering, Guindy

Bachelor of Engineering (B.E.), Computer Science Engineering, 2010 - 2014

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[Contact Skandan on LinkedIn](#)