

**M.S (Computer Science) Graduate Student**

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Sep 2015-Jan 2017

- **CGPA:** 3.63/4
- **Coursework:** Algorithm Design, Machine Learning, Information Retrieval

2009 – 2014  
Chennai, India

**Programming Languages** : Python, C++, C, Bash, Java, SQL, HTML, R  
**Softwares/Libraries** : NumPy, Pandas, MongoDB, OpenCV, MATLAB

Jun 2016-Sep 2016

- Worked on building a Nano-from-Macro (NfM) model for computing the long-term monetary impacts of ads blindness induced by a single ad impression.
- Worked on porting the entire NfM data analysis pipeline from R to Python (model is currently in production and will be live-tested on a sample of public users over the next 6 months)

Jul 2014-Aug 2015

- Winner, AOL Adap.TV Hackathon 2014 - Wrote an application that enables content publishers to add third-party real-time bid optimization engines.
- Implemented a forecasting algorithm for predicting website quality and advertisement viewability on third party websites based on historical viewability info.

May-Jul 2011-12

- Concepted and implemented a full-body gesture recognition library with multi-finger tracking using the Nintendo Wii and Microsoft Xbox Kinect

May-Jul 2013

- Prototyped a web-application that streams music off a user's various cloud-file service accounts like Dropbox, Skydrive, Google Drive.
- Worked with the Gaana.com UX/UI team in designing the Gaana 3.0 iOS and Android apps, which have had close to 50 million installations<sup>†</sup>

<sup>†</sup> <https://play.google.com/store/apps/details?id=com.gaana>

UC Irvine, Jan-Mar 2016

- Crawled the UCI Computer Science website and implemented a PageRank based textual search engine on a 34000 size document set. (NDCG score = 0.53)

UC Irvine, Mar-Jun 2016

- Discovered the appropriate vectorization techniques to vectorize over 120 loops from Doom 3D’s source code achieving an average **speedup of 165 percent** on the loop set.

IIT Madras, Chennai

July 2013 - July 2014

- Proposed a new algorithm to segment an engineering drawing into sub-drawings/views
- Developed an algorithm to find differences in draft dimensions between two engineering drawings while accounting for variations in scale, position and orientation.

Secured an **All India Rank of 542** (from over **400,000 candidates**) in the Joint Entrance Exam for admission to the Indian Institutes of Technology (**IIT-JEE 2009**).

Represented **Team India** at the **South East Asian Regional Computer Confederation International Schools Software Programming Contest 2008** (SEARCC ISSPC 2008)

**Winner, ACM Online Programming Contest** at HackUCI 2015, UCI's annual Hackathon