

# Swarun Krishnamoorthy

M.S (Computer Science) Graduate Student

---

CONTACT INFORMATION	#3801 Parkview Lane Apt 11-D, Irvine California 92612	+1 650-619-4722 swarunk@uci.edu <a href="http://swarunkrishna.github.io/">http://swarunkrishna.github.io/</a>
EDUCATION	<b>Master's of Computer Science</b> <i>University of California, Irvine</i> <ul style="list-style-type: none"><li>• <b>CGPA:</b> 3.63/4</li><li>• <b>Coursework:</b> Algorithm Design, Information Retrieval, Data Structures</li></ul> <b>Dual Degree Masters (B.Tech + M.Tech) in Electrical Engineering</b> <i>Indian Institute of Technology, Madras</i>	Sep 2015-Jan 2017  2009 – 2014 Chennai, India
SKILLS	<b>Programming Languages :</b> Python, C++, C, Bash, Java, SQL, HTML, R <b>Softwares/Libraries :</b> NumPy, Pandas, MongoDB, OpenCV, MATLAB	
PROFESSIONAL EXPERIENCE	<b>Software Engineer Intern, Google, Mountain View</b> Team: Auction Signals (AdWords) <ul style="list-style-type: none"><li>• 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.</li><li>• 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)</li></ul> <b>Software Engineer, AOL Adap.TV, Hyderabad</b> Team: Forecasting & Optimization <ul style="list-style-type: none"><li>• Winner, AOL Adap.TV Hackathon 2014 - Wrote an application that enables content publishers to add third-party real-time bid optimization engines.</li><li>• Implemented a forecasting algorithm for predicting website quality and advertisement viewability on third party websites based on historical viewability info.</li></ul> <b>Research Internship, Concept Labs, IIT Madras Research Park, Chennai</b> <ul style="list-style-type: none"><li>• Concepted and implemented a full-body gesture recognition library with multi-finger tracking using the Nintendo Wii and Microsoft Xbox Kinect</li></ul> <b>Internship - Gaana.com, Times Internet Ltd, Delhi</b> <ul style="list-style-type: none"><li>• Prototyped a web-application that streams music off a user's various cloud-file service accounts like Dropbox, Skydrive, Google Drive.</li><li>• 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></li></ul> <sup>†</sup> <a href="https://play.google.com/store/apps/details?id=com.gaana">https://play.google.com/store/apps/details?id=com.gaana</a>	Jun 2016-Sep 2016  Jul 2014-Aug 2015  May-Jul 2011-12  May-Jul 2013
ACADEMIC PROJECTS	<b>Page-Rank Based Textual Search Engine</b> <ul style="list-style-type: none"><li>• Crawled the UCI Computer Science website and implemented a PageRank based textual search engine on a 34000 size document set. (NDCG score = 0.53)</li></ul> <b>Vectorization Methods in Standard Loops</b> <ul style="list-style-type: none"><li>• Discovered the appropriate vectorization techniques to vectorize over 120 loops from Doom 3D's source code achieving an average <b>speedup of 165 percent</b> on the loop set.</li></ul> <b>Revision Detection in Engineering Documents</b> <i>With Dr AN Rajagopalan (in coordination with Caterpillar Inc.)</i> <ul style="list-style-type: none"><li>• Proposed a new algorithm to segment an engineering drawing into sub-drawings/views</li><li>• Developed an algorithm to find differences in draft dimensions between two engineering drawings while accounting for variations in scale, position and orientation.</li></ul>	UC Irvine, Jan-Mar 2016  UC Irvine, Mar-Jun 2016  IIT Madras, Chennai July 2013 - July 2014
SCHOLASTIC ACHIEVEMENTS	Secured an <b>All India Rank of 542</b> (from over <b>400,000 candidates</b> ) in the Joint Entrance Exam for admission to the Indian Institutes of Technology ( <b>IIT-JEE 2009</b> ).  Represented <b>Team India</b> at the <b>South East Asian Regional Computer Confederation International Schools Software Programming Contest 2008</b> (SEARCC ISSPC 2008)  <b>Winner, ACM Online Programming Contest</b> at HackUCI 2015, UCI's annual Hackathon	