# Swarun Krishnamoorthy

M.S (Computer Science) Graduate Student

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http://swarunkrishna.github.io/

EDUCATION

## Master's of Computer Science

Sep 2015-July 2017

University of California, Irvine

• CGPA: 3.9/4

#### Dual Degree Masters (B.Tech + M.Tech) in Electrical Engineering

2009 - 2014

Indian Institute of Technology, Madras

Chennai, India

• Minor Stream: Mathematics for Computer Science

• CGPA: 7.02/10

SKILLS

Programming Languages: Python, C++, C, Bash, SQL, HTML, R Softwares/Libraries: NumPy, OpenCV, JQuery, Joomla, MATLAB

### Professional EXPERIENCE

## Software Engineer, AOL Adap.TV, Hyderabad

Jul 2014-Aug 2015

Team: Forecasting & Optimization

- Winner, AOL Adap.TV Hackathon 2014 Wrote an application that enables content publishers to add third-party real-time bid optimization engines. (expected as a feature in Feb 2016)
- Implemented a forecasting algorithm for predicting website quality and advertisement viewability on third party websites based on historical viewability info.

## Research Internship - Concept Labs, IIT Madras Research Park, Chennai May-July 2011

- Designed a gesture-recognition library that detects a number of body gestures (swipe, cross arms, wave hand, clap hands, etc.)
- Expanded the above library into a complete Natural User Interface platform that can be integrated with any Windows application.

#### Research Internship - Concept Labs, IIT Madras Research Park, Chennai May-July 2012

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

## Internship - Gaana.com, Times Internet Ltd, Delhi

May-July 2013

- Was one among 15 students selected from all of India for the Times Internet internship
- 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 10 million installations<sup>†</sup>

#### RESEARCH Projects

## Revision Detection in Engineering Drawings

IIT Madras, Chennai July 2013 - July 2014

With Dr AN Rajagopalan (in coordination with Caterpillar Inc.)

- Proposed a new method to separate the textual and graphics part in engineering drawings
- 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.

#### SCHOLASTIC Achievements

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)

Won the Regional and National Finals of the Young Talent Search in Computer Programming: Contest 2008, conducted by Computer Society of India.

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

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