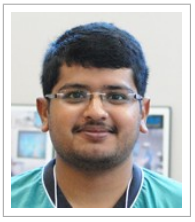

# Ravikiran Janardhana

## Experience

2011–present **Research Assistant**, *University of North Carolina at Chapel Hill*, Chapel Hill.
Worked on identifying fiber crossings in white matter of the brain under *Dr. Martin Styner*

2009–2011 **Software Engineer**, *Yahoo! India*, Bangalore.
Developed Facebook, Twitter and LinkedIn modules

Implemented front-end based instrumentation of My Yahoo! product in order to compute page-views, module-views and click through rates (*CTR*)

Developed an instrumentation dashboard to showcase daily statistics of views and clicks utilizing Apache Hadoop and Pig for the backend to query the records (*in the order of millions*)

Demonstrated the quality of a utility player by handling both the frontend as well as the backend tasks which included porting legacy code, improving existing modules and developing new modules

## Education

2011–present **MS.**, *University of North Carolina at Chapel Hill*, Chapel Hill, NC.
Masters in Computer Science

2005–2009 **BE.**, *Peoples Education Society Institute of Technology (PESIT)*, Bangalore, India.
Bachelor of Engineering in Computer Science - 88.40%

## Computer skills

Super C/C++, PHP, Javascript
Good Java, Python, Hadoop, Pig
Passable Perl, Shell, HTML5, CSS
Platforms Linux, Web
Concepts Computer Vision, Motion Planning for Robots, Digital Image Processing

## Academic Projects

2011 **Roadmap-based Motion Planning in Dynamic Environments**.
Implemented a motion planning algorithm for a point robot to navigate in a dynamic environment consisting of both static and dynamic moving obstacles from start to goal

*1100 W NC HWY 54 BYP, APT 38B – CHAPEL HILL NC-27516*
*919-448-8740* • *ravikiran.j.127@gmail.com*

2011 **Identifying fiber crossing landmarks in the white matter of the brain**.
Designed and Implemented an algorithm to identify fiber crossing landmarks in the white matter using entropy, fiber segments per voxel and fiber orientation dispersion

The input for the algorithm is a Diffusion Weighted MR Image (DWI) and the output is an image which highlights the fiber crossing landmarks

2009 **Track Me - A suite of innovative user interfaces**.
Track Me is a series of innovative user interfaces whose goal is to help users interact with their PC in a natural manner. It consists of:

Fintrack ME - Finger Tracking Mouse Emulator

Talk2me - A speech driven Powerpoint and Windows Media Player assistant

Point2me - A laser point tracking Powerpoint and Windows Media Player assistant

This won the best project award in the Department of Computer Science at Prakalpa 2009 organized by PES Institute of Technology

2008 – 2009 **American Sign Language Interpreter**.
Developed a real-time interpreter of American Sign Language alphabets which converts hand gestures into text, which is further read out by a speech engine

This project resulted in a research paper [1] which was presented at *International MultiConference of Engineers and Computer Scientists 2009, Hong Kong*

An extension of this work appeared as a book chapter [2] in *Intelligent Automation and Computer Engineering*, Springer, 321-332, 2010

## Awards and Achievements

Mar 2011 **Promoted**, *Yahoo! India*, Bangalore, India.
Promoted to Senior Software Engineer

Jan 2010 **University Gold Medal**, *Visvesvaraya Technological University*, PESIT, Belgaum, India.
Awarded Gold Medal for being the University topper in Bachelor of Engineering (B.E) in Computer Science (2005-09)

Jul 2009 **Certificate of Merit**, *International MultiConference of Engineers and Computer Scientists 2009*, Hong Kong.
Awarded Certificate of Merit for the conference paper *Finger Detection for Sign Language Recognition* presented at IMECS 2009, Hong Kong

## Interests

Software Linux and Open Source

Web HTML5

Sports Football, Cricket, Basketball

Entertainment Classical/Electric Guitar, Keyboard, Computer Games and Table Tennis

## Publications

[1] J Ravikiran, Kavi Mahesh, Suhas Mahishi, R Dheeraj, S Sudheender, and Nitin V Pujari. Finger detection for sign language recognition. In *Proceedings of the International MultiConference of*

*Engineers and Computer Scientists 2009*, volume I, pages 489–493. International MultiConference of Engineers and Computer Scientists, 2009.

[2] J. Ravikiran, Kavi Mahesh, Suhas Mahishi, R. Dheeraj, S. Sudheender, and Nitin V. Pujari. Automatic recognition of sign language images. In *Intelligent Automation and Computer Engineering*, volume 52 of *Lecture Notes in Electrical Engineering*, pages 321–332. Springer Netherlands, 2010.