

# SAUMYE SRIVASTAVA

**Areas Of Interest:** Data Structure and Algorithm, Parallel Computing, Computer Vision

## EXPERIENCE

### Research Intern

SMST, Indian Institute of Technology, Kharagpur

June-2014

Developed an algorithm to identify, segment and classify clustered H&E Breast Cancer nuclei from microscopic images by using Image Processing techniques in Matlab. Completed 6 weeks internship with a research paper in progress.

## PROJECTS

### Quest

[github.com/Saumye](https://github.com/Saumye)

An Android search app that compiles multimedia results in real time for a better search experience. It parses JSON data from Wikipedia/DBPedia API and XML stream from Google Images to present a visual result with a summary instead of the usual search results.

### Breakout

A game developed in Java on an open-source engine called 3Coffee, developed by a senior. The 2D game involved collision tracking between balls, bricks, paddle etc. Also took a workshop on Java game development as a part of college technical fest.

### Custom Data Structure Library

Wrote a library containing different data structures such as Tries, Lists, Trees, Suffix Array etc, using C++ templates supporting multiple operations.

## ACHIEVEMENTS

- Part of the team ranking 5<sup>th</sup> out of nearly 25,000 participants across India and later represented Karnataka, in Aspirations2020 2013 National coding finals at Infosys, Bangalore.
- Distinction in course in 'Algorithm Analysis' taken by Prof. Tim Roughgarden from Stanford University, USA from Coursera.
- Microsoft Certified Professional after successfully obtaining a Microsoft Technical Associate certification from Microsoft.
- Winner of various college level coding events in Manipal and also 'Geek Cipher' event held at Anna University, Chennai.
- Completed 'Big Data analytics on Hadoop' workshop as part of PING 2014 organised by Microsoft and Infosys India.

## EDUCATION

### Manipal Institute of Technology

Manipal University

2011-2015

B.Tech in Computer Science with a current GPA of 7.1 till 6<sup>th</sup> semester.

**Undergraduate Coursework:** Data Structures, Algorithms, Operating Systems, Networks, Automata Theory, Parallel Computing, Neural Networks, Data Mining, Computer Architecture.

## SKILL SET

### Languages/Frameworks:

Average coding skills in C, C++, Java. Considerable knowledge of Android development, Git(Version Control), HTML, CSS, JSON, XML, OpenCL, MPI.

### Softwares:

Matlab, Visual Studio, Eclipse, Postgre-SQL, Adobe Photoshop.

## RESPONSIBILITIES

- Event-head of Game Development Category in Techatva Annual tech-fest of Manipal Institute of Technology, 2013 which involved taking workshops on game development in java from scratch and judging/rating games.
- Event organizer for Gaming category, Revels Annual Cultural-fest of Manipal Institute of Technology, 2012.
- Worked as team leader in AIESEC which involved visiting NGO's to organize events with incoming interns from different countries, working on posters, event-website, blog, Intern reception booklet, brochures, etc.
- President of Information Technology in the prefect board, House Vice-captain in DPS Bangalore.

## EXTRA-CURRICULARS

- Active member of Linux User's Group, Manipal.
- Drummer of a rock band 'Agyaat', participating in numerous fests in school and colleges. Also the finalist of 'Battle of the Bands' event of Revels, 2013 at Manipal Institute of Technology.
- Dancing professional in the Manipal's hip-hop dance crew, 'Showstoppers' throughout first year.