

Sarthak Ahuja

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Education

IIIT-Delhi

B.Tech(CSE) (2012 – Present)

CGPA: **9/10**

(till 6th Semester)

Apeejay School Pitampura, Delhi

CBSE Class XII (2011 – 2012)

%age: **93.2**

Apeejay School Pitampura, Delhi

CBSE Class X (2009 – 2010)

CGPA: **10/10**

Skills

Area of Interest

Image Processing, Computer Vision, Pattern Recognition, Machine Learning, Algorithms, Software Design and Development

Programming Language

Matlab, C, C#(Basics), C++, Python, Java SE, Android Java, HTML, CSS, PHP, ABAP for SAP, Ruby, Javascript, R(Basics), SQL

Tools and Technologies

Visual Studio, Ruby on Rails, Django, PHP, Android SDK, Eclipse, Jekyll, ROS, NetBeans, Latex, photoshop, illustrator, InDesign, git, SVN

Technical Electives

Theory of Computation, Image Analysis, Software Engineering, Data Mining, Mobile Computing, Computer Vision, Pattern Recognition, Practice of Programming, Machine Learning (Coursera)

Work Experience

Swarath – Autonomous Car (Industrial)

(May,15 –present)

IIIT-Delhi

Currently a member of IIIT-Delhi's core team in the Driver Less Challenge by Mahindra. Lead a team of 2 and designed the Test Bench and Perception Module in ROS/C++.

Meri Awaaz (Industrial)

(Oct,14 –present)

Mutiny Labs

Currently Product Head (Web) at a two year old start up aimed at bridging the gap between politicians and citizens by developing the perfect complaint redressal system. Link: meriawaazapp.com

Lava International (Industrial)

(June,14 –Aug,14)

Noida Office

Co-op at the IT Department of Lava International working on designing and handling Tertiary Systems.

Worked as a SAP ABAP Trainee in the Technical Team. Part of the team designing the call center system.

Mo Magic Technologies (Industrial)

(June,14 –Aug,14)

Noida Office

Worked as a Co-op Android Application Developer and trainee. Developed a commercial application 'Handsfree', a driver assistance application. Got exposed to application testing.

AIIESEC (Rural)

(Aug,13 –April,14)

Delhi University

Worked as Team Leader in the CIM Department. Organized youth conferences and events. Handled their websites, wikis, business intelligence reports and designs.

Teaching Assistant (Teaching)

(Aug,14 –May,15)

IIIT-Delhi

CSE101: Introduction to Programming

CSE102: Data Structures and Algorithms

Selected Projects

- Distress Detection** (*Java, PHP, Matlab*) (Aug,14 – present)
Guide: Dr. Sanjit Kaul Team Size-1
An Android Application project which uses audio data and machine learning algorithms to collect and analyze nearby data to detect distress activity in the surroundings.
- SLAM in Egocentric Videos** (*C++, Matlab, ROS*) (Jan,15 – present)
Guide: Dr. Saket Anand Team Size-1
Project aimed at finding a novel way to deal with the challenges of pose estimation in egocentric videos like frequent head movement and object removal.
- Image Colorization using Chrominance Blending** (*C#, emguCV*) (Aug,14 – Nov,14)
Guide: Dr. Mayank Vatsa Team Size-2
Implementing and Analyzing the performance of Chrominance Blending Technique proposed by Liron Yatziv and Guillermo Sapiro in their paper on the same as compared to other conventional Algorithms.
- Detection of Prolonged Narcotic Users using Face Images** (*Matlab*) (Jan,15 – May,15)
Guide: Dr. Richa Singh Team Size-2
Course project involving the evaluation of prevalent pattern recognition techniques to perform binary classification on a in-the-wild dataset of Mugshot Images of drug addicts.
- CoDrive: Crowd Sourced Memory Sharing** (*Java, Javascript, Lint, SONARQube*) (Jan,15 – May,15)
Guide: Dr. Rahul Purandre Team Size-4
A crowd-sourcing based android application to allow temporary sharing of phone memory space among peers easily and securely. Introduction to Static Code Analysis and Design Patterns.
- ReWise: In-Class Quizzing Application** (*Java, Javascript*) (Aug,14 – Nov,14)
Guide: Dr. Vinayak Nayak Team Size-5
An android application to hold quick in-class quizzes. Intuitive UI, Ever Growing Question Bank, Statistical Analysis of Quizzes as well as Individual Performances and Gamification using Badges.
- *Internship/minor projects are not included in this section. For more details please visit sarthakahuja.org*

Positions of Responsibility

- Elected Member of the Student Council. DAC Representative. (April,15 – present)
- Member of the Core Organizing Committee – Esya'14 (May,14 – Sept,14)
- Member of the Placement Committee – IIIT-Delhi (Jan,15 – present)
- Organizing Team – IIIT-Delhi Research Showcase'14 and '15 (Jan,15 – Mar,15)
- Founder and Club Administrator – Ink. (Design Club) (Aug,14 – present)
- Founder and Club Administrator – IIIT-Delhi Media Panel (Jan,15 – present)
- Club Administrator – Foobar (Programming Club) (Jan,15 – present)
- Club Administrator – MadToes (Dance Club) (Sept,13 – April,14)

Awards and Achievements

- Won First Prize in the Project Showcase Event at IIIT-Delhi RS'15 for "Distress Detection".
- Secured a position in the top 10 of Androidathon held on 20th July 2014 at 91springboard.
- 3rd position in Intra-IIIT-Delhi programming contests – ProSort[19] and ProSort[22].
- Merit Certificate in the National Mathematics Olympiad (2009) from DAMT.
- Inspire Internship Program (2010) - Department of Science and Technology, Govt. of India.
- Distinction in the Educational Assessment conducted by University of New South Wales, Australia (2008) top 2% of Participants in Delhi in Mathematics

Interests and Hobbies

- I am a *freelance graphic and web designer* having completed quite a few projects over the past three years. A glimpse of my work can be seen at design.sarthakahuja.org.
- I am a sports enthusiast, eagerly following cricket, football and tennis. When not working or designing, I can be found on the football field, if not the basketball court.

Declaration: The above information is correct to the best of my knowledge.

Sarthak Ahuja

Date: June 23, 2015