Sarthak Ahu	ja		
CONTACT INFORMATION	AC-1/159A Shalimar Bagh New Delhi 110088, India		+91-9971496664 sarthak12088@iiitd.ac.in sarthakahuja.org
RESEARCH INTERESTS	Artificial Intelligence, Computer Vision, Machine Learning, Image Processing, Computer Graphics and Mobile Computing		
EDUCATION	Indraprastha Institute of Information Technology, Delhi		
	Bachelor of Technology, Computer Science, Expected: Summer 2016 CGPA: 9.		
	Thesis Topic: SLAM in EgAdvisors: Dr. Saket Ananc		
	Apeejay School, Pitampura, Ne	ew Delhi	
	Senior School, Science, CBSE, May 2012 93.2		
	 Courses: Physics, Chemistry, Mathematics, Computer Science and English A1 Grade in all courses 		
	High School CBSE, May 2010 95.0%		
	 Courses: General Science, Social Studies, Mathematics, Hindi and English A1 Grade in all courses. Perfect GPA 10/10. Finished top of my class. 		
TECHNICAL	1. Theory of Computation	5. Data Mining	9. Machine Learning*
ELECTIVES	2. Image Analysis	6. Mobile Computing	10. Artificial Intelligence*
	3. Software Engineering	7. Computer Vision	11. Computer Graphics*
	4. Practice of Programming	8. Pattern Recognition	12. Linear Optimization*
	*ongoing courses		
Work Experience	Currently a member of IIIT-l	l, Dr. Sanjit Kaul, Dr. Rahul Pu Delhis core team in the Driver I est Bench and Perception Modul waaz	Less Challenge by Mahindra. Lead a

Supervisor: Aditya Kumar Nayak

Mutiny Labs

IIIT-Delhi

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

Research Intern, Computer Vision and Machine Learning Supervisor: Dr. Saket Anand

December 2014 to January 2015

Worked on image segementation based on semi-supervised metric learning. Work involved performing literature survey on superpixel and graph based approaches for image segmentation and writing code for superpixel based graph cuts to perform the figure/ground segmentation.

SDE Intern, Lava International

June 2014 to August 2014

Supervisor: Mr. Mayank Kumar

Lava Intl., Noida

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 for XOLO services.

SDE Intern, MoMagic Technologies

June 2014 to August 2014

Supervisor: Mr. Pushkar Sharma

MoMagic., Noida

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

Department Lead, CIM, AIESEC

August 2013 to April 2014

Supervisor: Vineet Arora

Delhi University

Worked as Team Leader in the Communication and Information Management Department. Organized youth conferences and events. Developed and handled their websites, wikis, business intelligence reports and creatives.

PROJECTS

SLAM in Egocentric Videos

Advisors: Dr. Saket Anand and Dr. Chetan Arora

March 2015 onwards B.Tech. Project

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.

Distress Detection

August 2014 to July 2015

Advisor: Dr. Sanjit Kaul

Independent Project

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.

Multi-Sensor Data Fusion for Human Activity Recognition

August 2015 to November 2015 Course Project (Team Size: 2)

Advisor: Dr. Richa Singh

Some Content.Some Content.Some Content.Some Content.Some Content.

Some Content.Some Content.Some Content.Some Content.Some Content.

Multi-Agent Path Planning for Warehouse Butlers

August 2015 to November 2015

Advisor: Dr. Sandeep Aine

Course Project (Team Size: 2)

Some Content.Some Content.Some

Kinect Driven 2D Mesh Animation with OpenGL

August 2015 to November 2015)

Advisor: Dr. Ojaswa Sharma

Course Project (Individual)

Some Content.Some Content.Some

Image Colorization using Chrominance Blending

August 2014 to November 2014)

Advisor: Dr. Mayank Vatsa

Course Project (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

January 2015 to May 2015)

Advisor: Dr. Richa Singh

Course Project (Team Size: 2)

The project involved 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

January 2015 to May 2015)

Advisor: Dr. Rahul Purandre

Course Project (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

August 2014 to November 2014

Advisor: Dr. Vinayak Naik

Course Project (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.

EXTRA-CURRICULAR ACTIVITIES • Elected Member of the Student Council.

April 2015 onwards

• Disciplinary Action Committee Student Representative.

April 2015 onwards

• Member of the Core Organizing Committee Esya14

May 2014 to September 2014

• Member of the Placement Committee IIIT-Delhi

January 2015 onwards

• Organizing Team IIIT-Delhi Research Showcase14 and 15

January 2015 to March 2015 August 2014 onwards

• Founder and Club Administrator Ink. (Design Club)

January 2015 onwards

• Founder and Club Administrator IIIT-Delhi Media Panel

7 2015 OHWARA

• Club Administrator Foobar (Programming Club)

January 2015 onwards

• Club Administrator MadToes (Dance Club)

September 2013 to April 2014

Selected Awards

- Won First Prize in the Project Showcase Event at IIIT-Delhi Research Showcase 2015 for Distress Detection. The presentation poster is available here.
- Secured a position in the top 10 of Androidathon held on 20th July 2014 at 91springboard for developing and pitching "Sticky Agent", a group messaging service for customer complaint redressal. The presentation pitch is available here.
- 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.

TEACHING EXPERIENCE Online Course Instructor

Summer 2013

CSE131 - System Management (Designed content for locally hosted edX course)

Instructor: Dr. Amarjeet Singh

IIIT-Delhi

Teaching Assistant

Monsoon 2014

CSE101 - Introduction to Programming

Instructor: Dr. H. B. Acharya

IIIT-Delhi

Teaching Assistant

Winter 2014-15

CSE102 - Data Structures and Algorithms

Instructor: Dr. Sandeep Aine

IIIT-Delhi

Teaching Assistant

Monsoon 2015

CSE201 - Advanced Programming Instructor: Dr. Chetan Arora

IIIT-Delhi

Skills

Programming Languages

• 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, QT

Graphic Designing

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 behance.net/sarthakahuja. My interest and passion towards designing also led me to starting a design club in my institute Ink. in 2014.

3D-Modelling

During my first year, as part of a self-learning project I got introduced to 3D-modelling in Maya. Out of interest I took a design internship under Dr. Saket Anand in my second year which involved making a 3D-model of my Institute in Google Sketch-Up. This project is now being taken forward as "The Virtual Campus" project by a team on campus. One of my designs can be seen here.

References

Dr. Saket Anand

Assistant Professor Phone: 011-26907425 Computer Vision E-mail: anands@iiitd.ac.in

Indraprastha Institute of Information Technology, Delhi

Dr. Sanjit Kaul

Assistant Professor

Phone: 011-26907457

Wireless Networks

E-mail: skkaul@iiitd.ac.in

Indraprastha Institute of Information Technology, Delhi

Dr. Chetan Arora

Assistant Professor

Computer Vision

Phone: 011-26907475

E-mail: chetan@iiitd.ac.in

Indraprastha Institute of Information Technology, Delhi

^{*}Internship/minor projects are not included in this resume. For more details on projects(source code) and relevant links to activities please visit sarthakahuja.org