

Akshay Jaggi

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Education

- **International Institute of Information Technology** Hyderabad, India
Bachelor of Technology
CGPA: 9.37
2012 – present
- **The Air Force School** Delhi Cantt.
Senior Secondary, CBSE
Average: 94.3%
2011 – 2012
- **The Air Force School** Delhi Cantt.
Secondary, CBSE
CGPA: 9.8
2009 – 2010

Work Experience

- **Summer Internship** Google, Inc.
Software Engineering Intern - Search Infrastructure
May 11, 2015 – July 31, 2015
 - Worked on one of the middle tiers of Google Search Stack
 - Migrated late-request RPCs to use a new, simpler parallelisation scheme
- **Google Summer of Code** Haiku, Inc.
Porting LibUSB to Haiku
May 19, 2014 – August 18, 2014
 - Wrote the LibUSB backend for Haiku
 - Fixed bugs in the USB Host Controller Drivers (UHCI, EHCI)
 - Improved the XHCI Host Controller Driver to boot from a USB 3.0 port on Intel LynxPoint
- **Teaching Assistant** IIIT Hyderabad
 - Computer Programming (*Monsoon 2014*)
 - Compilers (*Monsoon 2015*)
- **Students' Parliament** IIIT Hyderabad
 - Elected Member (*April 2014 – March 2015*)
 - General Secretary (*April 2015 – present*)
- **Admin - Open Source Developers Group** IIIT Hyderabad
A group of Free and Open Source Software(FOSS) enthusiasts
2014 – present
- **System Admin and Organiser - Felicity Threads** IIIT Hyderabad
Felicity Threads is the annual technical festival of IIIT Hyderabad
November 2014 – February 2015

Awards, Grants & Honours

Dean's List - I

Among the top 5% of the class in academics

- Monsoon 2012
- Spring 2013
- Monsoon 2013
- Spring 2014

All India Rank 267 AIEEE	2012
<i>Among 1.2 million students who appeared for the exam</i>	
All India Rank 3165 IIT-JEE	2012
<i>Among 500,000 students who appeared for the exam</i>	
Times NIE Student of the Year Trophy	2011
<i>For achievements spanning academics, conduct, leadership</i>	
Chief of the Air Staff Running Trophy	2010
<i>Highest position in tenth standard</i>	

Projects

- Compiler for Decaf** IIIT Hyderabad
Course Project under Prof. Suresh Purini *Monsoon 2014*
 - Syntax Analyser and AST generation using Flex and Bison
 - Code generation using LLVM
- Mini Database Management System** IIIT Hyderabad
Course Project under Prof. Krishna Reddy *Spring 2015*
 - MySQL parsing using Flex and Bison
- In-memory FileSystem using FUSE** IIIT Hyderabad
Course Project under Prof. Krishna Reddy *Monsoon 2013*
- Automatic and Secure Car Ignition** *June 2013*
Designed an interface to connect a Raspberry Pi to a Car ignition System
 - The project involved using transistors as a switch, linked with the Rpi's GPIO
 - This could be used by a laptop/mobile to remotely start/stop a car after authentication
- 8 bit Processor Emulator** IIIT Hyderabad
An extension of the DLP Course *Monsoon 2012*
- 3D Bike Racing Game** IIIT Hyderabad
Course Project under Prof. P.J. Narayan *Spring 2014*
 - A minimalistic physics engine was written, to simulate gravity
 - Using OpenGL as the graphics library
- Positional Hand Motion Tracking** IIIT Hyderabad
Course Project under Prof. Kishore Prahallad *Spring 2014*
 - Traced the motion of a hand using a web-camera, and used this as a Human-Interface-Device
 - Colour detection using HSV representation of images
 - Image-Moments used to detect the position of the hand

Technical Skills

Working Knowledge C++, C

Past Experience Django, Python, Git, HTML

Competitive Programming

- Ranked 913 in Google CodeJam 2013 Round-2.** India Rank - 11.
 (among 1825 people who participated in Round 2)
- My team (**TheHeuristics**) participated in the ACM-ICPC 2013 regionals
 - **Rank 2** in Kharagpur Regionals (Online Round) (among 822 teams that participated)
 - **Rank 7** in Kharagpur Regionals (Onsite Round)
 - **Rank 14** in Amritapuri Regionals (Online Round) (among 1413 teams that participated)
 - **Rank 17** in Amritapuri Regionals (Onsite Round)
- CodeForces
 - Handle – [akshay1994.leo](#)
 - Current Rating: 1821
 - Highest Rating: 1893
 - India Rank: 116 out of 2232