

Ritvik CHOUDHARY

PERSONAL DATA

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EDUCATION

MAY 2016 **Delhi Public School, Udaipur**
Physics, Mathematics, Chemistry, English and PEd.

WORK EXPERIENCE

Current JAN 2015	Mobile Research Intern at CRAYFIS, UC Irvine <i>Cosmic Ray detection research</i> Developed efficient methods for analysing cosmic rays inexpensively via smartphone cameras. Worked extensively with custom physics engines and Objective-C to monitor and collect data from the CMOS sensor. Related research paper is published on ArXiv.
Current JUNE 2015	Co-Founder and CEO at PHANTOM LABS <i>AI-based web tracking</i> An AI based web-service, it developed out of a hackathon project. Accepted into the London based <i>Oxygen</i> Accelerator Program. It was recently seeded with \$500,000 in angel investment from European VCs. Part of the Top 5 percent club in the <i>Y Combinator Fellowship</i> , 2015 Only Indian startup to be part of the <i>Founders' Institute</i> Silicon Valley, 2015.
SUMMER 2015	Backend Engineer Intern at TINDER, Los Angeles <i>Optimizing the database and building data storage solutions</i> Scaled the structure of the website in Ruby and Scala. Worked on improving the systems architecture and upload mechanism on the website.
SUMMER 2014	Summer Intern at AMAZON INDIA, Software Engineer Created a framework to improve search and ranking algorithms while fetching lists and carrying out search. Worked on improving the efficiency of the backend with the extensive use of Node.js and other libraries. Youngest intern ever at the company (16)
JUNE 2013	Software Developer at RUNNING PI STUDIOS, Colorado <i>Senior Developer for iOS and Web applications</i> Responsibilities included use of Java, Objective-C and JavaScript.

ACTIVITIES

- 10th-12th** | **Developer at PASCAL**
Particle Accelerator and Collision Simulator
Developed a full-fledged Particle Accelerator and Collision Simulator that uses real-time open sourced particle data from labs across the world.
Core motivation was to create a medium for experiencing particle physics at an intimate level in Indian classrooms.
- 11th** | **Youngest Attendee from Asia at the CALTECH SUMMER CAMP, Los Angeles**
Worked on Computational Physics
Observed and interacted with the visionaries at NASA's JPL and the Physics Department of Caltech to learn more about the methods of Computational Physics.
Was placed 1st in the largest hackathon organized in Los Angeles.
- 10th-11th** | **Researched iOS systems with former Apple security researchers**
Detailed and patched the vulnerabilities in iOS 6 systems
Developed an extensive binary in C from scratch for unlocking the kernel infrastructure of closed iOS 6 devices.
Working on compiling and publishing all the exploits as a research paper.
- 11th-12th** | **Founder at SAVETHEINTERNET, Net Neutrality network**
Developed the only extensive web network in India to campaign for Net Neutrality in the Summer of 2015.
The site reached about 5 million visitors and was successful in preserving Net neutrality in India
- 11th** | **Youngest Attendee from India at WWDC by Apple in California**
I was awarded a full-scholarship to attend WWDC. It was an opportunity to check out and work with the latest developer offerings from Apple in iOS and OSX systems.
- 9th-12th** | **Co-Founder and Senior member at UNDER30CHANGEMAKERS, California**
We are a nonprofit aimed at working with intellectuals and entrepreneurs in backward regions, providing them with tools and resources to lift off their businesses.
We have more than 20 teams in our current batch.

HONORS AND AWARDS

- 10TH, 11TH** | **Top 1% in the nation in the zonal round of International Physics Olympiad (IPhO)**
12TH | **Finalist in World's Largest Collegiate Programming Event, PennApps.**
12TH | **Recruited by Google India as the youngest intern ever at the age of 16.**
10TH, 11TH | **Top 1% in the nation in the zonal round of International Astronomy Olympiad. (IAO)**
10TH | **National Scholar in National Talent Search Examination.**
12TH | **Accepted as the only student from India to the Thiel Summit in Las Vegas.**
12TH | **Ranked 2nd/500 and 3rd/800 at AngelHack Delhi and HackIndia respectively.**
12TH | **Awarded the title of Most Complex Product by CERN for the Particle Simulator.**
11TH | **Youngest member from India to the Y Combinator's StartupSchool, New York.**
11TH | **State Scholar in the Regional Mathematics Olympiad (Pre-IMO), 2014.**
9TH | **State Scholar at the International Junior Science Olympiad, 2012 (IJSO).**

SKILLS, INTERESTS AND LANGUAGES

- Proficient:** C++, OBJECTIVE-C, PYTHON, RUBY, UNIX, JAVASCRIPT, \LaTeX
Interests: Open-Source, Programming, Paradoxes, Logic and Machine Learning
Other Languages: Hindi, Sanskrit (Limited Proficiency)