

# HARKIRAT SINGH

Date of Birth: 18-06-1992

[LinkedIn](#)

[harkirat1892@gmail.com](mailto:harkirat1892@gmail.com)

+91-9167106304

503, Block 3,  
Malaysian Township,  
Kukatpally, Hyderabad,  
Telangana, India – 500072  
[www.harkiratsingh.in](http://www.harkiratsingh.in)

## Education

- **Punjab Technical University**  
*B.Tech. Computer Science and Engineering*  
- 67.52%  
Mandi Gobindgarh, Punjab  
(June 2014)
- **Teja Singh Kandhari Public School**  
*XII, Non Medical, CBSE*  
- 70.00%  
Patiala, Punjab  
(2010)
- **Kendriya Vidyalaya No.- 1**  
*X, CBSE*  
- 85.60%  
Patiala, Punjab  
(2008)

## Achievements / Positions of Responsibility

- ❑ Grand Prize Winner in "Improving the Quality of Education", sponsored by *UNESCO, Nokia and Pearson Foundation* in the Grand Finale of the "[Education for All](#)" Crowdsourcing challenge, where participants from all over the world participated (September 2012). Got mentioned in a [press release by UNESCO](#), announcing the result and the award. (11 Oct, 2012)
- ❑ Developed and managed Explorate.in's entire tech operations and requirements single-handedly for a long time, while being constantly involved in brainstorming over new features and ideas.
- ❑ Finished the developments for mpower.chat in very short deadlines, all alone. Timing was very crucial as the startup was pivoting from Explorate.in, being a social e-commerce platform, towards Mpower.chat, which is a startup focused on building chatbots for various service sectors.
- ❑ Fueled by an Entrepreneurial spirit, started DreamingKnights.com and Startoholics.in, while still being an undergraduate. Startoholics made a great impact and at its peak, we had a team of 6 team members, including a few remote interns.

# Work Experience / Projects

## Tech Lead at Mpower.chat, Mpower Solutions, Mumbai (June 2016 – November 2016)

Mpower.chat is a pivot from Explorate.in. Mpower.chat aims to be a chat based solution across existing messaging platforms for businesses to automate processes and interact with their customers in a human manner. Being the only developer at that junction, I played a crucial role along with the team to get it set up.

In brief:

- Developed FB chatbot for conducting pilot project in collaboration with a restaurant using its FB page
- Simplified the restaurant chatbot for FB to be automatically set up by just logging in via FB. The owner can then add the restaurant menu and make the bot live. Hence, rolled out "Mpower for Restaurants" as SAAS based model for integrating chatbot on FB pages.
- Integrated Wit.ai into the chatbot to use its NLP to interpret intent from the text received from user, and responding accordingly.
- Stayed tightly involved in brainstorming, business model development, hiring, and giving FB chatbot demos to clients in other service industries such as banking and police services.

Technologies used: FB Messenger API, PHP (Codeigniter), MongoDB, Ubuntu VPS

## Tech Lead at Explorate.in, Mpower Solutions, Mumbai (July 2015 – May 2016)

Developed and maintained everything that required tech, from end-to-end, along with being constantly involved with day-to-day startup activities.

Apart from the constant feature additions and improvements, major challenges were saving and categorising products being saved by users, having a backend to monitor the products while allowing every product to get automatically tagged for better search results instantly, showing users the products according to their own taste (Personalisation with Machine Learning), categorising users into categories based upon their interactions with the website.

In brief, worked on the following:

- Implemented personalisation of products for a logged-in user. Implemented Machine Learning to adapt to each user's taste and sense of fashion, and show products according to that.
- Crawling 100+ E-Commerce websites to fetch latest prices of products saved to our website by users. Constant crawling of saved products to check for any updates.
- Once crawled, products get automatically tagged with various categories (e.g. for Summer, Winter, for parties, etc.), type of product (e.g. Accessory, Clothing, Shoes etc.) using basically the title of the product. This auto tagging was the base of tag-based search queries. This could be managed in backend.
- Developed Chrome Extension to make it easier for users to save products from any e-commerce website. For non-chrome users, made a script, executable as a bookmark to do the same.
- Developed a Price Alert feature to help users stay alert about changes in the prices of products saved by them.
- Optimized the loading time of website from 10-13s to 2-4s.
- Worked on UI redesigns, while keeping an eye on Google Analytics

Technologies used: PHP (Codeigniter), MySQL, Python (Scrapy), HTML, jQuery, Javascript, AJAX, CSS

## Co-founded Startoholics.in (June 2013 – January 2015)

Initiated the idea right from scratch to making it a substantial platform choice for visibility for entrepreneurs in India.

Apart from handling everything tech, managed a team of 5, executed on strategies and ideas about interviewing Entrepreneurs, and organized a campaign in Mumbai against common stereotypes in society.

## Web Developer at PriceBaba.com, Mumbai (July – October 2014)

Worked on redesigning, optimization and day-to-day maintenance of two backends panels, used by the in-house operations team.

Technologies Used: jQuery, Redis, PHP, MySQL, Apache2, HTML, AJAX, CSS

## Web Development Head at Alexis Patiala Chapter (July - November 2012)

Volunteered for Alexis Patiala Chapter as per event requirements. Developed website for GEVC (Global Ethics and Values Convention) which was held in NCR from 16th – 18th December 2012, and for our chapter's (local) events.

As a core team member of the Patiala Chapter, organized an outing and a fund-raising event called FIRE (Faith In Reaching Everyone) for students of Patiala School for The Deaf and Blind, while organizing events (competitions, dances, and theatrical dramas) for students of some schools in Patiala.

# Technical Skills and Experience

Programming Languages : PHP, Python, C++  
Web Technologies : Javascript, HTML, CSS, AJAX, Apache, Redis  
DBMS : MySQL, MongoDB, PostgreSQL  
Operating Systems: : Linux Ubuntu, Microsoft Windows

## Miscellaneous

- Achieved an overall 92.25 percentile in Management Aptitude Test (MAT) by AIMA. Received 98.49 percentile in the "Data Analysis and Sufficiency" section, and 87.17 percentile in the "Intelligence and Critical Reasoning" section. (*December 2013*)  
Test conducted by All India Management Association (AIMA).
- As a Scout, was awarded "State Level Puraskaar" from Bharat Scouts and Guides.
- Achieved 96 percentile and an AIR of 2586 out of 73666 students who gave NITAT-2014, 10th National IT Aptitude Test conducted by NIIT. Received 100% in Problem Solving section. Also received merit certificate for the same. (February 2014)
- Represented my school at K.V.S. Regional Level Sports Meet of Chess at Chandigarh, competing with students from other Kendriya Vidyalayas under Chandigarh region.  
Was also a team member of school's basketball team.