

# POOJA SINGH

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## OBJECTIVE

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To develop high-performance and secure network protocols which would eventually impact people.

## PROJECTS AND EXPERIENCE

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### INDECOMM GLOBAL SERVICES

January 2017 – Ongoing

*VigilanteATI*

*Full Stack Developer*

- **VigilanteATI**, a security app to stop security breaches for users. App is created on pyramid framework, using sqlalchemy and MacOS.
- **Design** backend architecture(MVC) for the app and **implement** controller for the same.
- **Created** scrapers to scrap forums for ECRIME (monitors hackers' activities and discussions on different forums and brings the data for possible data breach).
- **Designed** module for scraping Pastebin data.

### BROCADE COMMUNICATION SYSTEMS

March 2015 – December 2016

*TeamTrack*

*Software Developer*

- **Design** and **Enhancement** of Defect Management tool.
- **Designing DB** to keep track of all the products of Brocade.
- **Created** tool to assigned the defects to respective team and developers.

### TENTENTEN DIGITAL PRODUCTS

December 2014 – January 2015

*ICC WORLD CUP Fantasy League*

*Software Developer*

- Online game to choose real life players from the ICC Cricket WorldCup teams during WorldCup and score points as per their performance.
- **Design** schema and write queries & stored procedures **MySQLv5.5**.
- **Desinging** the product using MVC architecture, using web2py framework for controllers and models.
- **Enhanced** the system to withstand huge traffic(**10 million** users).

### TENTENTEN DIGITAL PRODUCTS

December 2014 – January 2015

*ICC WORLD CUP QUIZ*

*Software Developer*

- Online quiz game about cricket World Cup.
- **Improved** randomized selection of questions by about **150%** using **Fisher-Yates algorithm**.
- **Design** schema and write queries & stored procedures **MySQLv5.5**.
- **Desinging** the product using MVC architecture, using web2py framework for controllers and models.

### TENTENTEN DIGITAL PRODUCTS

August 2014 – October 2014

*SMELFIE*

*Software Developer*

- **Integrated** users' social networking accounts with app using **Oauth**.
- **Employed** image processing techniques to process image and adjust the image in user defined frame as per user requirement and forming collage of 2 or more images.
- **Design** schema and write queries & stored procedures **MySQLv5.5**.
- **Desinging** the product using MVC architecture, using web2py framework for controllers and models.

### TENTENTEN DIGITAL PRODUCTS

July 2014 – October 2014

*CL T20 2014*

*Software Developer*

- **Created** automated scorecard updates. using **javascript** and **web2py** framework.
- **Improved** auto selection of players for teams. Applied probabilities to players by seeing their current form, OVR(overall rating), and cost of player as distribution variables. Kept the odds as:- Would the player be selected in squad.

## TENTENTEN DIGITAL PRODUCTS

### IPL FANTASY LEAGUE 2014

March 2014 – June 2014  
Software Developer

- Online game to choose real life players from the IPL teams during IPL season and score points as per their performance.
- **Enhanced** the system to withstand huge traffic(**10 million** users).

## HACKATHONS AND COMPETITIONS

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### MyGola

Android App

Hackathon

- **Built** an app which could track friends locations and helps them plan get-together parties.
- Used **XMPP**(Extensible Messaging and Presence Protocol) as the protocol for sending **IM**(Instant Messaging) based invites.

### Robo-Race Competition

Inter-Collegiate Competition

- Designed and built a robot which could travel on a guided path.
- Finished among **top 5%** of the participants.
- Used “**left hand wall exploring**” algorithm to find the destination and then **A\*** algorithm to reach back to the start.

## EDUCATION

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**Bhabha Engineering Research Institute**  
Electronics and Communications Undergraduate

August 2008 – June 2012

## TECHNICAL STRENGTHS

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<b>Languages</b>	Python(Expert), Java(Moderate), C(Moderate), C++(Hands On), MATLAB(Hands On)
<b>Web Technologies</b>	HTML5(Expert), JAVASCRIPT(Moderate), JQuery(Moderate), Ajax(Moderate), CSS(Moderate), Angular JS(Hands On)
<b>Frameworks</b>	Flask(Expert), Django(Moderate), Pyramid(Moderate), Web2py(Moderate), J2EE(Hands On).

## RELEVANT COURSES

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### College Courses

Introduction to Programming Languages  
Data Structures and Algorithms  
Computer Architecture  
Probability and Statistics  
Linear Algebra  
Calculus

### Online Courses

Algorithms(Coursera)  
CS50(edX)  
Computer Systems Security(MIT OCW)  
Computer Networks(Coursera)  
Automata(Coursera)  
Operating System(NPTEL)

## POSITION OF RESPONSIBILITY

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**Placement 2011–12***Chief Student Placement Coordinator*

December 2011 – March 2012

*Bhabha Engineering Research Institute*

- **Spearheaded** a 2-tier team of 40 people to successfully conduct placements.
- **Interacted** company heads and tried to convince them about the students ability in our college.
- Recorded a **40% increment** in placements as compared to previous years.