# Ram Goel

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ramgoel91@gmail.com  | 17th October 1991 |  English & Hindi

## Summary

Highly motivated IT professional with more than 7 years of experience in multi-disciplinary roles involving full stack web development, information security and network administration.

Seeking a leadership role in providing efficient technical solutions to business processes along with deploying required IT infrastructure.

## Skills

- Proficient in design and development of web applications with AAA security techniques

- Database: MySQL

- Technologies: Python, PHP, Core Java, HTML, CSS JavaScript, jQuery, AJAX

- Framework: Django, Self-developed framework for PHP

- Strong understanding of information security and techniques like PKI, SSL, etc.

- Strong understanding of protection against web application vulnerabilities like SQL Injection, XSS, CSRF, Clickjacking etc.

- Hands on installation and deployment on Linux based instances on Google Cloud (GCP), Amazon Cloud (AWS) and standalone Linux servers

- Proficient in Search Engine Optimization

- Installation, deployment and configuration of: network switches, routers and firewall/UTM, DNS service, LDAP and NAS device.

## Professional Experience

**SCIENTIFIC OFFICER at BOARD OF RADIATION & ISOTOPE TECHNOLOGY (BRIT-BARC), DAE, MUMBAI, MAHARASHTRA – INDIA | (August 2014 – Present)**

Responsible for the development, operation and maintenance of IT services at BRIT. I have practical experience in understanding diverse user requirements within the organization and delivering efficient, scalable and effective solutions to it. I have successfully delivered many organizational requirements related to web application development, information & network security, network services and has configured many critical network devices. I have also been responsible for the upgradation, deployment and maintenance of

network infrastructure of the organization. My work has streamlined essential administrative processes and improved overall productivity at the organization by enhancing communication and coordination between various teams at BRIT.

*MAJOR PROJECTS:*

1. **Design and Development of Accounts and Administration Information System:**
   I have been responsible for enabling the transition of paper based administrative processes to a paperless streamlined process. I have installed and deployed the requisite IT application and infrastructure to accomplish the same. The following administrative applications have been developed by me:

   - Employee Payroll management
   - Leave Management System
   - User Information system
   - Employee Performance Appraisal system

   The systems have been developed using the following technologies

   - *Front End:* HTML, CSS, JavaScript (jQuery and AJAX)
   - *Backend/Framework: PHP*
   - *Database:* MySQL
   - *Communication Security:* SSL encryption
   - *Development Platform:* Cross platform

2. **Upgradation, configuration and maintenance of network infrastructure:**
   I have been responsible for enhancing the network security and performance of the organization's network by upgrading its legacy architecture to a VLAN based system, improving ease of administration, confinement of broadcast domain and reduced broadcast traffic.

   The following network device/service configurational activities have also been carried out by me:

   - *L2 Switches*
   - *L3 switches*
   - *DNS service deployment*
   - *Network Access Control (NAC) Device*
   - *Unified Threat Management (UTM) Device*
   - *Network Attaches Storage installation*

3. **Information Security Project:**
   As a hobby project I have designed, developed & deployed an online Voucher processing platform for organizational department on PHP based customised MVC framework backed with MySQL database. This project mainly focused on:

   - Web Application Security: Secured from many web attacks like SQL Injection, CSRF, XSS, etc.
   - Information Security: A novel symmetric key encryption technique is designed, developed & implemented by me, which not only protects the data from user but from the DBA also.
   - Network Security: SSL channel is provided

*FREELANCING PROJECTS:*

Apart from the regular work, as a technical enthusiastic person I have also designed, developed, and deployed the web platform for the two startups mentioned below:

- *Front End:* HTML, CSS, JavaScript (jQuery and AJAX), Bootstrap
- *Backend/Framework: Django*
- *Hosting Platform:* GCP

- *Database:* MySQL
- *Communication Security:* SSL encryption
- *Development Platform:* Cross platform
- *Web Server:* Nginx

a) Carvengers: It is an *Indian startup* which provides online platform for car search and comparison to help customers to buy & sell cars.
b) Greenbug:  It is *France based startup* which try to connect people to the environment and conducts many events and workshops for the same.

## Education

**Indian Institute of Technology Roorkee, Haridwar, Uttarakhand, India | Master of Technology**
Computer Science & Engineering, 2016
Secured **"First Division"** with CGPA of 7.194 (out of 10)

**Homi Bhabha National Institute, Mumbai, Maharashtra, India | Diploma in Nuclear Engineering**
Specialization in Computer Science, 2015
Secured **"4ᵗʰ rank"** with 74.8%

**Graphic Era University, Dehradun, Uttarakhand, India | Bachelor of Technology**
Computer Science and Engineering, 2013
Secured **"First Division with Honours"** with an overall score of 81.33 %

**S.D. Public School, Muzaffarnagar, Uttar Pradesh, India**
Class XII (CBSE) - Senior School Certificate with an overall score of 73.8% in year 2009
Class X (CBSE) – Secondary School with an overall score of 64.8% in year 2007

## Major Achievements

**PUBLICATION:**

**Efficient Searching Methodology for finding relevant Paths between Nodes using Qualified Bi-Directional BFS algorithm on Graph Database**
*Ram Goel, Namrata Srivastava, Himani Chandola, Bhanvi Rohilla, Saurabh Srivastava & R. H. Goudar*
*3rd IEEE International Advance Computing Conference (IACC) – 2013*

**AWARDS:**

- GATE Award for securing **99.92 percentile** (RANK - 188) in GATE – 2013
- Research Award for Publishing paper in IEEE – April, 2013
- 2nd Runner up in "C" Programming Competition organized in Grafest 2012 at Graphic Era University.