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## Harmandeep Singh

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<https://singh47.github.io>

### EDUCATION

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Post Graduate Certificate in Human Resources Management, **Parkland College Saskatchewan**  
**Coursework:** Organizational Behavior, Communication, Strategic Management 2016-2017

Bachelors in Technology (Information Technology), **Punjab Technical University** 2010-2013  
**Coursework:** Algorithms & Data Structure, Operating Systems, Networks  
Senior year project work focused on developing a VNC server in python, GPA: 8.0/10.0

Under Graduate Diploma (Information Technology), **Thapar Polytechnic, Patiala** 2007-2010  
**Coursework:** Basic and digital electronics, Computer networks, Multimedia  
Last year Individual projects were audio amplifier and interactive webpages, GPA: 6.8/10.0

### EMPLOYMENT

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**Python Programmer** **Khalasa Labs** **Aug 2018 – June 2019**

- Automated web posts and blogging platform using python
- Utilized face recognition APIs for security IOT device using raspberry pi

**Software Developer** **Lab91 Software Pvt. Ltd.** **Sep 2015 – Jan 2016**  
**www.tabettree.com** | An online e-commerce pharmacy

- Design and Developed Inventory management system using django.
- Developed REST based API using django for mobile developers

**Software Developer** **Redlizard Studioz Pvt. Ltd** **Aug 2013 – May 2016**  
**www.redlizardstudioz.com**

- Integrated amazon cloud services and payment gateway with e-commerce website.
- Extend and Optimized django framework for custom admin panel and data handling.

**iPhone Game Developer, Intern** **Hadron Solutions Pvt. Ltd** **Jan 2013 - April 2013**

- Programmed game logics and physics engine for iPhone based 2D games
- Debugged and optimized game projects using XCode's profiler and Objective-C/C++

### SKILLS

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**Programming:** Python, C++, Objective-C, PHP, CSS, JavaScript  
**Frameworks:** Django, WordPress, jQuery, Cocos-2D, Box-2D, .Net  
**Python Modules:** Xlrt, PIP, PIL, Urllib2, Requests, BeautifulSoup, Virtualenvs, Pygame  
**Front-End:** CSS3, HTML5, JS, Basics of AngularJS  
**Databases:** MySQL, JSON and XML  
**APIs:** REST, XML, JSON  
**IDE/Tools:** XCODE, Pycharm, Aptana, Photoshop, Lightroom  
**Code Management:** Git and SVN  
**Servers/PAAS:** Apache, Amazon AWS, Heroku  
**Others:** Atlassian Jira, Mailchimp, Stripe, Celery, Monit, Firebase

## PROJECTS

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### Mobile Games

- **Zombie eats brain** | Level based mobile game
- **Ninja throw** | Physics engines based game

**Technology Utilized:** Objective-C, C++, Cocos2D, Level Designer, Box2D

### Ecommerce

- **Table Tree** | Online Pharmacy that accept uploaded prescriptions and store patient's data
- **The Health Tree** | An online health product selling platform with coupons and rating features

**Technology Utilized:** Django, Python, HTML5, Bootstrap, CSS3, jQuery, Mailchimp, Paypal, AWS, SOAP, REST

### Web Server

- Configure and Manage Linux servers for python based ecommerce websites.

**Technology Utilized:** Python, Apache, Linux, Virtual Hosts

### Scripts

- Auto Website Visitor, tool developed in python to visit multiple websites with multiple identities

**Technology Utilized:** Python, Urllib2, Re

### Research

- Analysis of DOS and DDOS attacks using Deter test bed network.

**Implementations:** Python scripts for generate DOS and configuration of snort IDS.