14 Cityside Way NE, Calgary

harman@khalsalabs.com

+1-306-316-1590

https://singh47.github.io/

Harman Singh

ACCOMPLISHMENTS

- 5+ years of total work experience in IT and 3+ years as a Python Developer.
- Expertise in Python, Python MVC, SQL Databases, Web Services, Apache.
- Diverse experience of completing various projects including e-commerce, data mining, mobile game applications and machine learning.
- Working Knowledge in Cloud Platforms including Amazon Web Services (AWS).
- Complete Understanding of object oriented programing and Agile development methodologies.
- Proven background for leading teams in stressful, deadline-oriented environments.
- Excellent communication, interpersonal and presentation skills.

EDUCATION

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

Software Developer   **Khalsa Labs**   **Aug 2017 – Present**
- Automated blogging platform (wordpress) using python   **(Current Projects)**
- Implement face recognition APIs on raspberry pi for security device
- Contributed into machine learning projects for image recognition using keras and tensorflow

Projects Undertaken
- **Home Security** | Pi based face recognition device, recognized faces and send alerts.
- **Auto Website Visitor** |A tool developed in python to visit and analyze performance of multiple websites.
- **Research** | Analysis of DOS and DDOS attacks using Deter test bed network.

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

Technology Utilized: Python, Python, Urllib2, Re, Pandas, Tensorflow, keras, SCIPY

Software Developer   **Lab91 Software Pvt. Ltd.**   **Sep 2015 – June 2016**
www.tabettree.com | An online e-commerce pharmacy
- Developed inventory management system to handle 30k plus products
- Contribute into customer relationship management system solving hundreds of queries per day
- Responsible of training and development program for company interns and junior employees

Projects Undertaken
- **Server Conf.** | Configure and Manage Linux servers for python/django based ecommerce websites.

- **Table Tree** | Online Pharmacy contains 30k plus products. Pharmacy includes features like accepting uploaded prescriptions by customers, reminding customers for their scheduled medicine purchase and recommend the medicine brands based on prescribed salts.

Technology Utilized: Django, Python, Apache, Linux, Virtual Hosts, HTML5, Bootstrap, CSS3, Pyxlrt

Software Developer   **Redlizard Studioz Pvt. Ltd**   **Aug 2013 – Aug 2015**
www.redlizardstudioz.com
- Designed database architecture to enhance web apps performance.
- Search performance of e-commerce platform optimized by 33% by optimizing SQL queries
- APIs maintained for mobile application and worked back and forth with mobile development team
- Successfully configure and manage Linux servers and code deployments using terminal, GIT and JIRA.

Projects Undertaken
- **The Health Tree** | An Ecommerce solution for health products selling platform with features including promo coupons, rating and reviews, and product recommendations. Website included large number of subscribed customers and automated emails for handling basic queries. Used a centralized database for website and mobile application.

Technology Utilized: Django, Python, jQuery, Celery, Monit, boto3, Mailchimp, Paypal, AWS, Docker, REST

iPhone Game Developer, Intern   **Hadron Solutions Pvt. Ltd**   **Jan 2013 - April 2013**
- Programmed game logics and physics engine for iPhone based 2D games
- Debug and optimized game projects using XCode's profiler

Projects Undertaken
- **Zombie eats brain** | iPhone game based on various levels designs and physics objects in each level.
- **Ninja throw** | iPhone game based on physics based difficulties.

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

ADVANCE SKILLS

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

GITHUB REPOSITORIES

https://github.com/singh47/objectDetect
https://github.com/singh47/usbSpeedTest