

DS

DINESH SINGH

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OBJECTIVE

To obtain a challenging position of entry level programmer, and contribute positively to build a long-term career with the company

- Programming Languages: **Java/ Python/R/C++**
- Frameworks: Django, Spring, Hibernate
- Web Technologies: **HTML / JavaScript / CSS**
- Databases: Oracle 10g / MySQL / SQLite
- Mobile App Development: **Swift for IOS, Android**
- Operating Systems: Linux / Mac OS / Windows

EDUCATION

MS IN COMPUTER SCIENCE • TO BE EARNED IN 2017 • UNIVERSITY OF CENTRAL MISSOURI – GPA 3.88/4.00

BACHELOR OF ENGINEERING (INFORMATION TECHNOLOGY) • 2015 • GITAM, INDIA – GPA 3.86/4.00

CERTIFICATIONS

- **Introduction to Data Science in Python**
 - Coursera Course Certificates License TCE9HMP7LMLW, November 2016
- **Up and Running with Python and Django**
 - Lynda.com License E861DC, October 2016

ACCOMPLISHMENTS

- Received “**Math and Science Achievement award**” in **University of Central Missouri** during Jan 2016 and Oct 2016.
- **Self-Authored** a Book on **C++ and Data Structures**, book available in GitHub as well.
- First place winner in **ISTE Tech-Expo** for developing an **iOS app in Swift**.
- Conducted Two **Coding Events** as a **CSI Body Member**.
- Participated in Techno Management Fest Kshitij-2012 and Statis (Robotics) at **IIT KHARAGPUR**.
- Participated in Web Development Workshop at Tech Fest **IIT Mumbai**.

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EXPERIENCE

Scitus Labs and Technologies Inc. – Java Developer/Software Engineer

Feb 16 – Oct 16

Worked on Java Enterprise project remotely for building a website for aptdc, which is used for tourism that involved hosting and building the site.

- User management including sign-on facility provided and proper session and cookie mechanisms were maintained throughout the project
- Different models were created based on standard OOAD practices
- Dependency Injections and IOC were used and properly coded as per the need.
- Burn-down charts on different metrics were generated to track the progress and velocity
- Wrote models related to booking reservations, different packages at different price details.

Technologies: Java, Servlets, JSP, Spring, Apache, SQL, JIRA, Rational Rose.

Scitus Labs and Technologies Inc. – Java Developer, Software Engineer.

Apr 15 – Nov 15

Part of the team who built the website from the scratch for a client who is in Food/Restaurant chain business

- Wrote the Models for functionality of placing an order, Home Delivery and Reservations.
- Requirements gathering and Analysis were done with standard OOAD practices and modeled in different UML diagrams.
- As part of Agile development, additional requirements were implemented simultaneously along with development stage.
- Used Scrum methodology and maintained standard software engineering practices.

Technologies: Java, JSP, Servlets, Spring, Apache, SQL, JIRA, Rational Rose.

Scitus Labs and Technologies Inc. – Intern Java Developer

May 14 – Aug 14

Scitus Labs and Technologies is ETS verified company which uses Agile Project Management as a Software Development strategy in their company. Worked as a Team lead guiding other interns.

- Designed and maintained the user interface of the organization web portal to ensure a consistence look and feel under different platforms and browsers.
- Created website layout/user interfaces by using standard HTML/CSS/Boot-Strap practices.
- Gathered and refined specification and requirements based on technical needs
- Good communication with the team is maintained throughout the project using JIRA and HipChat.

Technologies: Java, JSP, Servlets, HTML, CSS, Boot-Strap, Java Script, MySQL, JIRA

Freelance Projects

Zonal Housing and GDP analytics – Data Analyst

As a Data Analyst, works involved to Interpret data extracted from web scrapers and applying different statistical techniques on GDP, Housing, Census data giving the output of reports and graphical representation of the well formatted data.

- Wrote well designed, web scrappers with efficient code to extract data using Beautiful Soup library from python and well formatted the wrangled data using regular expressions by removing unnecessary fields and filling out the missing Values
- Performed A/B testing on different sets of data and measured the right threshold value
- Data Structures like DataFrame and Series are used to pivot tables and to re-index the data structure when necessary

Technologies: Python, Pandas, NumPy, Beautiful-Soup, CSV and XLS Files, R

Content Based Image Retrieval – Team Lead

As per my undergraduate college curriculum, we designed a software which is used for image retrieval based on input sketch or color image. The algorithm which is used is a Histogram of Oriented Gradients also called as HOG

- Created and maintained software documentation.
- Integrated data from various back-end services and data sets.
- Created the user interface by Java Swings and designed in a user-friendly manner.
- Wrote well designed, testable and efficient code by using best software development practices

Technologies: Matlab, Java, HOG feature extractor, SQL, Rational Rose.

Reliable Data Transfer – Go Back N and Selective Repeat

As per the college curriculum in Computer Networks, I Implemented RDT in Go Back N and Selective Repeat algorithm and determined which works better in different conditions like Bandwidth, Window Size, Time Delays (both Propagation and Transmission Delay), Loss Rate. Observations made are tabulated and based on the efficiency decided which is better in different conditions. The project is published on GitHub along with the report.

- Well formatted and efficient code.
- Command Line interface to observe and note the measured values.
- Gathered and maintained specifications and requirements based on professor needs
- Successfully graded A for the project.

Technologies: Java, SQL, WireShark, Linux

Music-Library on Python, Django, Bootstrap, SQLite, **Inversion Count** on Java, Python, Linux, **Web-cart** on Python, Django, SQLite and **Simulation of Web Server** on Java, Linux, SQL are the other freelance projects