



Shubham Subhankar Sharma

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EDUCATION

Degree	Institute	Year	CPI/Aggregate
B.Tech.	Indian Institute of Information Technology, Vadodara, India	2013-2017	8.21
Intermediate/+2	Kendriya Vidyalaya N.E.R Bareilly, U.P, India	2011-2014	91%
High School	Kendriya Vidyalaya Lokra, Sonitpur, Assam, India	2009-2010	9.8

SKILLS

Expertise Area: C++, OOPs, Algorithm Design and Analysis, Digital Image Processing

Area(s) of Interest: Operating System, Information Retrieval, Big data, Computer Vision, Cloud Computing, Software Engineering

Programming Language(s): C++, C, Java, GNU Octave, Bash

Tools and Technologies/SDK(s): Wireshark, Joomla, Latex, word2vec(NLP), ProjectLibre

Database: PostgreSQL, MySQL, Database Design and Analysis

Electives: Graph Theory and Optimization, Science Technology and Society, Science Fiction, Economics, Geo Science and Remote Sensing

PROJECTS

Query Autocompletion using Trie

Indian Institute of Information Technology, Vadodara

Instructor : Parth Gupta, Assistant Professor, IIIT Vadodara, India

In this project, I implemented Query Auto Completion using Trie data structure. It is an application which predicts the word user is typing. Aim is to get best top n queries for a given subquery. Brute force and Heuristic based approach are used in this project.

Canny Edge Detection and Harris Corner Detection

Indian Institute of Information Technology, Vadodara

Instructor : Dr. Jignesh Bhatt, Assistant Professor, IIIT Vadodara, India

In this project, I implemented Canny Edge Detection and Harris Corner Detection for feature extraction in GNU Octave. The purpose of these algorithm is to find the essential structural properties of the image. This technique is extensively used in computer vision and pattern recognition. I am going to use these techniques in my further works for OCR(Optical Character Recognition) for Handwritten and Printed text.

Hadoop, MapReduce paradigm and its Applications

Indian Institute of Information Technology, Vadodara

Instructor: Dr. Prasenjit Mazumder, Associate Professor, DAIICT Gandhinagar, India **Team size** 2

In this project, we installed Hadoop(an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models) on a cluster of three computers. One as master and two acting as a slave. We implemented Least common subsequence problem for generating summaries and DNA matching in hadoop.

My contribution: Installation of the system and designing and implementing algorithm for LCS in java.

Brute Force and SQL Injection Attack detection and prevention using Wireshark

Indian Institute of Information Technology, Vadodara

Instructor : Dr. Jignesh Bhatt, Assistant Professor, IIIT Vadodara, India

Team size 3

In this project, we developed a module for doing Brute Force Attack (for getting username and password) and did SQL Injection Attack on a isolated system using a single system as victim and multiple system as attacker. We installed DVWA(Damn Vulnerable Web Application) and Wireshark(Network Packet Analyzer) on the system for the same purpose.

TRAINING

MIT Media Lab Workshop(Innovative Design) in Synchronous Tools Track

Pandit Deendayal Petroleum University

Mentor: Tomer Weller and Jonathan Bobrow

In this workshop, I explored various technology like tessel(microcontroller), google glass, 3d printer, oculus etc. I learnt about how to do paper prototyping, pitch your product and make it presentable. I also learned how to collaborate with enthusiasts from different field and work as a team.

SDM Monitoring and Ticketing Tool

ATOS Private Limited India

Mentor: Chidhambaram Nathan

During the course of two months, I worked on SDM(Structured Design Management) Monitoring and Ticketing Tool for decision making and optimal distribution of task.

Cloud Computing Workshop at Robotryst at IIT Delhi

IIT Delhi

Mentor: Madhur Malhotra

In this workshop, I learnt about the ins and outs of cloud computing starting from virtualisation to handling and working with IaaS, PaaS, SaaS like Amazon EC2, Google AppEngine.

POSITION(S) OF RESPONSIBILITY

- School Captain, Kendriya Vidyalaya NER Bareilly (15 September 2011 - 20 April 2012)
- Sports Committee Head, IIIT Vadodara (20 August 2013 - 30 September 2014)
- Teaching Assistant(TA) for DBMS course, IIIT Vadodara.(2 February 2016 - 5 May 2016)
- Teaching Assistant(TA) for OS course, IIIT Vadodara.(5 August 2016 - Till Date)

Declaration : I hereby declare that all the details furnished above are true to the best of my knowledge and belief.