

VENKAT SAMBANDHAN

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EDUCATION

Indiana University, Bloomington, USA
Master's Degree: Computer Science, CGPA: 3.76/4.0

Expected: May 2017

BMS College of Engineering, Bangalore, India
Bachelor of Engineering Telecommunication, CGPA: 8.98/10.0

May 2013

RELEVANT COURSEWORK

Advanced Database Concepts, Information Architecture for the Web, Big Data Applications and Analytics
Algorithms and Data Analysis, Cloud Computing, Software Engineering

Fall 2015
Spring 2016

EMPLOYMENT

Tata Consultancy Services
Trainee: Hyderabad, India

Nov 2015
Aug 2013 to Dec 2013

Developed a project from scratch on "ONLINE TEST TAKING SYSTEMS" using Eclipse, Java, SQL, HTML, CSS and Apache Tomcat.

Associate System Engineer: Bangalore, India (Client: EQUIFAX)

Dec 2013 to Jul 2015

- Develop Scripts for different batch jobs, process monitoring and alert system.
- Responsible for Configuration and Change Management Systems which includes resolving the Deployment issues in DEV, QA, Load, UAT and Production.

ZTE Telecom India Pvt Ltd
Intern: Bangalore, India

Oct 2012 to Dec 2012

Project: Configuration and Commissioning of SDH

- Skills Used: Computer Networks, Wireless Communications, Unitrans ZXONM E300 EMS tool for Configuring and Commissioning for SDH.
- Next-generation SDH incorporating Ethernet-over-SDH making SDH an ideal platform for data requirements.
- This project will allow us to configure and commission Ethernet services over SDH.

Indiana University

Jan 2016 - Present

Part Time: Teaching Assistant (under Prof. John Paolillo)

- Working on Google, YouTube, and SMS datasets in PostgreSQL.
- Develop scripts using Python.
- Create interactive websites using HTML, CSS, and PHP.

TECHNICAL SKILLS

Programming Languages: C, C++, Java, VHDL, Verilog, Python

Web and Database: SQL, UNIX, HTML, CSS, JavaScript, JSON, PHP

Tools/Applications: Eclipse, Canopy, Websphere, Bugzilla, Jenkins, Maximo, Anthill, Matlab, Labview

PROJECTS

Restaurant/Lodging Online Reservation System for real world client

Nov 2015

- Skills used: HTML, CSS, PHP, JavaScript, SQL
- Website: <http://vishnusagar.herokuapp.com/>
- Develop a website for a real world client based on their constraints.
- Provide online home delivery and room reservation facilities through the website.

Server Client Application using TCP and UDP

Sep 2015

- Skills used: C, Silo and WireShark, Socket Programming
- Create a socket, bind it to a specific address and port, as well as send and receive a HTTP packet.
- Running the web server to handle a HTML file. Handle TCP persistent and non-persistent connections.
- Develop own HTTP client to test the server instead of using a browser.

An Adaptive Steganographic Technique Based on Integer Wavelet Transform

May 2013

- Skills used: Matlab Coding, Optimum Pixel Adjustment Algorithm, Integer Wavelet Transform, Histogram Equalization.
- Steganography attempts to hide the very existence of the message and make communication undetectable.
- It combines the use of adaptive hiding capacity function with the optimum pixel adjustment algorithm.
- The proposed system showed high hiding rates with reasonable imperceptibility.

RESEARCH PAPERS

Privacy Preserving Data Protection

Nov 2015

- Aim: No adversary gains a competitive advantage or sensitive information about the data owners.
- Provide methods and tools to fight against losing privacy
- Understand the different approaches to PPDP, use case scenarios, differentiate between PPDP and other similar problems.

Big Data Analytics and its Application in E-Commerce

Dec 2015

- Few case studies of how Big Data Analytics is being used by Amazon, Walmart and Adidas to raise their competitiveness level.
- Collaborative Filtering and Clustering Algorithm and other technologies used for the product recommendation system on E-Commerce websites.
- Understand the technologies used in Mobile Phone Analytics which make use of RFID tags, Bluetooth and GPS to identify the location of the user.

PUBLICATIONS

"Line Differential Protection in an Optic Fiber" in I.J.E.R.T (International Journal of Engineering Research & Technology)

Nov 2013

Volume 2 - Issue 11

CERTIFICATIONS

WEBSHERE: System Administrator MQ V7.0 by IBM

WEBSHERE: Network Deployment V7.0 Core Development by IBM