

VENKAT SAMBANDHAN

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EDUCATION

Indiana University, Bloomington, USA

Expected: May 2017

Master's Degree: Computer Science, CGPA: 3.83/4.0

BMS College of Engineering, Bangalore, India

May 2013

Bachelor of Engineering Telecommunication, CGPA: 8.98/10.0

RELEVANT COURSEWORK

Advanced Database Concepts, Information Architecture for the Web, Big Data Applications and Analytics

Fall 2015

Algorithms and Data Analysis, Cloud Computing, Software Engineering

Spring 2016

Advanced Operating Systems, Data Mining, Human Computer Interaction

Fall 2016

EMPLOYMENT

TATA CONSULTANCY SERVICES

Trainee: Hyderabad, India

Aug 2013 to Dec 2013

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

Associate Systems 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 and resolving the deployment issues in UAT and Production.

ZTE TELECOM INDIA PVT LTD

Internship: Bangalore, India

Oct 2012 to Dec 2012

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

Vigeo, Inc.

Internship: Software Engineer

Jun 2016 - Aug 2016

- Design, implementation, and deployment of project-specific mobile application features to enhance the user-experience.
- Expert knowledge in databases, user-interface, OOP, scalability, and design patterns.
- Participate in and provide design inputs towards the Platform initiative for streamlining expansions.

TECHNICAL SKILLS

Programming Languages: C, C#, C++, Java, VHDL, Verilog, Python, .NET

Web and Database: SQL, UNIX, HTML5, CSS, JavaScript, JSON, PHP, HBase

Tools/Applications: Hadoop, Eclipse, Canopy, Websphere, Bugzilla, Jenkins, Maximo, Anthill, Matlab, Labview, Spring, Hibernate, Xamarin

PROJECTS

Social Networking Website: CIRCULUS

Apr 2016

- Skills used: Spring, Hibernate, SQL, Software Engineering Design Patterns, MVC Waterfall Model
- Build an application similar to QUORA in accordance to the client's requirements.
- Executed the Waterfall model and performed the following 4 stages: SRS, Design, Implementation and Testing.

Restaurant/Lodging Online Reservation System for real world client: <http://vishnusagar.herokuapp.com>

Nov 2015

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

Search Engine

Mar 2016

- Designed a simple Search Engine in a cloud infrastructure using Hadoop, HBase and PageRank concepts.
- It is based on the Hadoop PageRank, HBase WordCount and FrequencyIndexBuilder concepts.
- Using this, one can search for a word and get the most relevant URI and content.

A Comparative Study on Maximum Flow Algorithms

May 2016

- Involves finding an attainable flow through a single-source, single-sink flow network that is maximum.
- Analyzed the algorithms theoretically and practically and compared these values with their practical implementations.

Server Client Application using TCP and UDP

Sep 2015

- Skills used: C, Silo and WireShark, SocketProgramming
- 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.

Hadoop PageRank

Feb 2016

- Implemented in cloud using Map/Reduce.
- PageRank is an algorithm used by Google Search to rank websites in their search engine results.
- It works by counting the number and quality of links to a page to determine a rough estimate of how important the website is.

RESEARCH PAPERS

Privacy Preserving Data Protection

Oct 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