VIKNESHKUMAR THIRUMOORTHY

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EDUCATION

Master of Science in Computer Science   Aug'15-Aug'17
Illinois Institute of Technology, Chicago.

Bachelor of Engineering in Computer Science   Aug'09-May'13
Anna University, India.

SKILL SET

Languages	Java, C, C++
Web Technologies	HTML, CSS, JavaScript, JSP, Servlets, RESTful Web Services
Relational Databases	Oracle, MySQL
NoSQL Database	Cassandra
Other Tools	Docker, Jenkins, Tomcat(server), Ansible, SVN, Kubernetes
Frameworks	Spring, Hibernate
Virtualization	VMWare, Hyper-V, Vagrant
Repository	Git, Bitbucket, SVN

CERTIFICATION

Oracle Certified Java SE6 Programmer (OCJP)

EXPERIENCE

Software Engineer
Indigo Systems and Technology   Aug'17 - present
Client: Verizon

· Design and development of Verizon Telematics end-to-end application used for fleet management of products and services to customers.
· Involved in developing multi-tier JavaEE application using Java RESTful web service that communicates bi-directionally between internal Verizon application platform with the external applications using JAX-RS and Oracle DB at the backend.
· Used Kafka for handling real-time and history data feeds from the user in a distributed streaming platform.
· Hands-On experience in Spring Core, Spring IoC and Spring MVC. Created Data Access Objects (DAO) making use of Hibernate implementation for in-line connection and communication with the relational database as a Java Persistence API(JPA) specification.
· Developed Ansible automation scripts using Jinja2 template for installation and configuration of applications in the development environment.
· Worked on agile development, including test driven development and automated builds in day-to-day software development lifecycle.

Software Engineer (Co-op)
Indigo Systems and Technology   Sep'16 - May'17
Client: NorthWestern University

· Worked on developing an authentication protocol that captures the fingerprint feeds of the customers trying to log into the Northwestern application.
· Developed a module that makes an internal asynchronous AJAX call to the Javascript plugin to collect the fingerprints of the user.

- Used LDAP Server (OpenDJ) for storing and retrieving the collected fingerprints. Optimized the LDAP directory server by analyzing the system specifications and solution requirements by implementing enhanced Java Heap garbage collection, preloading data entries in cache and optimizing db cache percentages.
- Data Visualization and Monitoring the collected data was handled using Grafana.
- Experience in handling docker containers and orchestrating the containers using Kubernetes.

Analyst
HCL Technologies, Chennai, India   Oct'13 - July'15

- Worked in VMware and Virtualization Team engaged in building and managing Virtual servers in CISCO UCS and HP Proliant hardware platform. Implemented highly automated Disaster Recovery for the Virtual environments with VMware Site Recovery Manager.
- Experience in Physical to Virtual (P2V) and Virtual to Virtual conversions using VMware Converter.
- Administered multiple disjoint Active Directory Forests, Domains, DHCP, DNS servers and various other Infrastructure services.

ACADEMIC PROJECTS

Mini Database
Technologies Used: *C,Linux(Ubuntu),gcc,valgrind*
Github: github.com/VTHIRUMOORTHY/Database

- Developed a small database-like system from scratch using important parts of the database system namely Storage Manager, Buffer Manager, Record Manager, B+ Tree.
- **Role:** Worked on major modules like handling data structures, reading blocks, buffer pool management, record representation, integrated the code, written and validated the test cases.

Hedonometer - Data Mining
Technologies Used: *Python, Anaconda, JSON*
Github: github.com/VTHIRUMOORTHY/Hedonometer

- Analysed a large Enron E-mail dataset with the help of Sentiment Analysis, Logistic Regression and predicted the duration which caused the downfall of the Enron company.
- **Role:** Worked on data collection using REST API, used Logistic Regression, SVC machine learning models and evaluated using sentiment analysis.

Hawks Forum - Mobile App
Technologies Used: *Android Studio, Java(J2ME), XML, MongoDB*
Github: github.com/VTHIRUMOORTHY/Mobile-App

- Developed a Student discussion forum app for the students in our college, where the current student and Alumni can discuss using the App.
- **Role:** User Interface and Design, implemented Fragments, backend.

PAPER PUBLICATION

Conflict Management Model using Functional Reactive Programming (Haskell) in Software Defined Networking   Nov'14

- Published in the 4th International Conference on Electrical, Electronics, Computer Science and Mathematics physical Education and Management (ICEECMPE), Singapore.

AWARDS AND HONORS

HCL Technologies   Feb'15

- Won the Ideapreneur of the year for successfully implementing the DRS Affinity Rule in windows cluster environment and enhancing the stability of the project.