

Dinesh Appavoo

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EDUCATION

MS in Computer Science

University of Texas at Dallas
Expected Spring 2015 | Dallas, TX
Cum. GPA: 3.5

BTech in Information Technology

Coimbatore Institute of Technology
May 2009 | India
Cum. GPA: 7.0/ 10.0

LINKS

github.com/dineshappavoo
linkedin.com/in/dineshappavoo
stackoverflow.com/users/3103732

COURSEWORK

Implementation of Adv Data Structures
Design and Analysis of Algorithms
Cloud computing
Advanced Programming Languages
Artificial Intelligence
Advanced Computer Networks
Database Design
Web Programming
UI Design for Mobile Devices (Android)

SKILLS

Programming

Java • C • C# • Python
SML • Prolog • Android SDK

Big Data

Hadoop (MapReduce) • HDFS
NoSQL Systems

Cloud

AWS[SimpleDB,S3,SQS,SNS]
Google Cloud

WEB/XML

JavaScript • HTML • CSS • DTD • XSD
XML • XPATH • WSDL • DOM • SAX

Tools & Softwares

Ganglia • Tomcat • Weblogic • Eclipse
QC • Flex Builder • XML SPY • PL/SQL

Databases

Oracle • MySQL • DB2 • MS SQL Server

Operating Systems

Linux • Unix • Windows • Mac

EXPERIENCE

BNSF Railway Operations Research Intern | May 2014 – Aug 2014

- Developed a module to identify the block sequence for the waybills/Shipment using Java
- Involved in the development of an application for scheduling the rail dispatchers using C#, SQL Server, SSIS
- Designed and implemented an algorithm for rail path optimization and flood control mechanism by allocating new path on link failure
- Developed unit test cases for waybill traffic profiler to ensure correctness

Verizon Analyst System Development | June 2011 – July 2013

- Implemented eBonding ordering product, which reduced the necessity of Data Gathering Forms and improved ordering time by 400
- Involved in the research and development for Graph Networks and proposed efficient graph algorithms for Verizon wireline networks
- Developed algorithms for dynamic graph construction to effectively add, remove routers in the network

Accenture Associate Software Engineer | Dec 2009 – May 2011

- Designed products for Telstra in wireless domain using solution design by following the established quality metrics and standards
- Integrated products stored in Siebel CRM with JAVA based Product Definition DataBase (PDDb)
- Designed an architecture to maintain the consistency between Siebel interface and product database

ACADEMIC PROJECTS

VM Placement and Scaling | CentOS, KVM, libvirt, Ganglia

- statically place and schedule and dynamically scale and migrate Virtual Machines (VMs) to optimize resource utilization by using efficient VM algorithms while meeting the SLAs of users in cloud

Cinux-Linux Customization | Shell script, C

- Customized Linux system from the scratch to effectively use the kernel
- Built a baby OS with the basic compilers, utilities like GCC, Glibc & etc. and other essential modules and patches required for the OS

Contact Manager in Cloud | J2EE, Amazon SimpleDB

- Developed a contact manager application to manage university contacts using Amazon cloud (SimpleDB) and Amazon EC2 instance

Big Data Analytics – IMDb Dataset | Hadoop, MapReduce, JAVA

- Used Map-Reduce and Hadoop to derive statistics like top 10 movies, total movies in a genre from IMDB dataset six-node cluster

Big Number Arithmetic | JAVA, Data Structures

- Developed a project to overcome the limitation of arithmetic operations on large numbers since current hardware supports 64 bit

AWARDS

Earned Yearly On the Spot Award during the probation period of service in Verizon for the exemplary performance