Gokulnath Ambigapathy

Software Developer

Personal Info:

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Technical Competencies

Programming Languages: C, C++, JAVA, JavaScript, Python
Web Tech. & Services: HTML5, JSP, XML, AngularJS, JQuery, JSTL, CSS
Frameworks & Technologies: MVC Framework, Tomcat, TomEE, Maven, SprintBoot, Postman
Operating Systems: Windows, Linux, Mac OS
Database: MySQL, MS SQL, PostgreSQL
IDEs: Visual Studio, Eclipse, IntelliJIdea
Certifications: SCRUM Team Member Certified

Education

University at Albany
Master's Degree December 2018
University of Texas at Arlington
Master's Degree May 2015
Anna University
Bachelor's Degree June 2012

Employment History

Software Developer

Ithos Global [July 2018 – December 2018]

Tech Used – JAVA, JSP, Servlet, JavaScript, JSTL, JQuery, HTML, CSS, MySQL, TomCat, TomEE, Postman

• **Data Migration from Sql to Mql Database** Migrated a few million data from Sql to Mql (Matrix Query Language) Database.
• **Dynamic Import Template** Created a few workflows based on the input from an excel sheet.
• **Performance Enhancement Task** Hashed the DB and paginated the data, thereby bringing the delay down to 5 seconds from 45 seconds
• **History Tracker for a Formula and its composition** Wrote Triggers and scripts
• **SMART FORMULATOR (RESTful API)** Implemented the Create&Update Formula module for the WebService.
• **Managed a team** thereby **conducted Training** sessions for the entry-level developers

Adjunct Instructor

University at Albany [Jan 2016 – Dec 2016]

• **Handled CSI 503** – Data Structures and Algorithms (Fall 2016).
Topics - NP Completeness and Graph Algorithms in-depth(upon request), Greedy Algorithms, Sorting Techniques, Trees, Dynamic Programming, Especially Gale-Shapley Algorithm
• **Handled CSI 403** – Data Structures and Algorithms (Spring 2016). Topics - Complexity theory, Graph Algorithms, Sorting Algorithms and other few Greedy Algorithms

System Admin Intern

University at Albany [May 2016 – Sep 2016]

• Assisted the senior system admin to design a virtual lab in order to process the data collected in order to predict the changes in the weather.
• Firewall configuration and monitor the network for various malware attacks.

Senior Systems Executive

Cognizant Technology Solutions [Dec 2012 – May 2014]

• Trained in CCNA, CEH, Network Security, Maven, SharePoint, and Mainframe.
• Monitored network traffic and network logs for the purpose of detecting abnormalities and implementing corrective and preventive measures, including network monitoring tools.
• Monitored Windows server systems, application logs and troubleshoot problems whenever necessary.

Academic Projects and Activities

Blog Management System
Tech – Java, SpringBoot, HTML, CSS, JavaScript, JQuery, MySql
A web app built in order to manage blogs.

NBA OnTheGo
A web app to display live scores. Got non-commercial student access from MySportsFeed.com in order to display real time scores, schedules and results.
Tech – Java, HTML, CSS, JavaScript, JQuery, SpringBoot, MySql, TomEE, Postman

Completely Fair Scheduler (CFS)
Tech – Java
using Red Black Trees (RBT) Implemented the Process Handler part of the Kernel on our own that handled each process based on time constraint.

UAlbany Food Court Website
Tech – Java, JSP, Servlet, JavaScript, JSTL, JQuery, HTML, CSS, MySql, Tomacat
A web portal for the students and the vendors to order and supply food on campus.

Created a site to collect relief funds
(for Chennai Floods)
Tech – Java, JSP, Servlet, JavaScript, JSTL, JQuery, HTML, CSS, MySql, Tomacat

Object Identification using OpenCV Objects were identified in the server using Haar's Algorithm and dealt in speech in the client using Text to Speech Synthesizer. Platform used was Android targeting Blind people

Research:

- Homomorphic Encryption Techniques - The research is on developing new schemes to perform arbitrary operations on the encrypted data on the secure cloud server.
- Computational Logic - Unification Modulo Elgamal Crypto System to identify various attacks that could be done on these systems.
- Image Compression Techniques – Had to modify the second step of the JPEG algorithm (challenge faced – still the image rendered are lossy)