

Gokulnath Ambigapathy

Software Developer

Personal Info:

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Portfolio: <https://gokul7690.github.io/cv/>

Technical Competencies

Programming Languages: C, C++, JAVA, JavaScript, Python

Web Tech. & Services: HTML5, JSP, XML, Angular2, JQuery, JSTL, CSS, J2EE

Frameworks & Technologies: MVC Framework, SprintBoot, Spring, JPA, Hibernate, Tomcat, TomEE, Maven, Postman

Database: MySQL, MS SQL, PostgreSQL

Operating Systems: Windows, Linux, Mac OS

IDEs: Visual Studio, Eclipse, IntelliJIdea

Certifications: SCRUM Team Member Certified

Education

University at Albany

Master's in computer science *December 2018*

University of Texas at Arlington

Master's in computer science *May 2015*

Anna University

Bachelor's in Computer Science *June 2012*

Employment History

Software Developer

Ithos Global [July 2018 – December 2018]

Tech Used – JAVA, JSP, J2EE(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, J2EE(Servlet), JavaScript, JSTL, JQuery, HTML, CSS, MySQL, Tomcat

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, J2EE(Servlet), JavaScript, JSTL, JQuery, HTML, CSS, MySQL, Tomcat

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)