GOKULNATH AMBIGAPATHY

Contact Information

📍 Troy NY

📞 682-564-6164

✉ gokul235813@gmail.com

🌐 https: gokul7690.github.io/cv/

🌐 https: linkedin.com/in/gokul7690

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

Academic Projects

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

- **NBA OnTheGo**
  Tech – Java, HTML, CSS, JavaScript, JQuery, SpringBoot, MySql, TomEE, Postman
  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.

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

Profile Summary

Dedicated and focused professional offering 8+ years' background in diverse field raging from teaching and research, software development, business and system analysis. Proven ability to leverage full-stack expertise to build interactive and user-centered website designs to scale. Extensive expertise in large system architecture development and administration, as well as network design and configuration. Adept at consulting with clients, writing code, solving compatibility issues, updating development process records, eliminating technical problems, and collaborating with the development team. Excels at multi-tasking in a fast-paced environment, completing projects within time and budget constraints. Looking forward to using my expertise in positions such as Software Developer, Java Developer, Business Analyst and System Analyst.

Work Experience

Software Developer │ Ithos Global │ Jul 2018 – Dec 2018
Tech Used – JAVA, JSP, Servlet, JavaScript, JSTL, JQuery, HTML, CSS, MySQL, TomCat, TomEE, Postman

- **Data Migration from Sql to Mql Database** Involves migrating a few million data from Sql to Mql (Matrix Query Language) Database.
- **Dynamic Import Template** Had to create a few workflows based on the input from an excel sheet.
- **Performance Enhancement Task** First a theoretical proof for the 45 delay in the page load was submitted and then proposed two different solutions to the problem (Hashing the DB and paginating the data were the remedies that reduced the delay to 5 seconds)
- **History Tracker for a Formula and its composition** Wrote Triggers and scripts in order to track any change in the data. Challenge faced – Two different tables with just one foreign key
- **Download Attributes History into an Excel** Wrote scripts and triggers in order to keep track of the history. All the history data can be downloaded based on metrics (say Formula History, Composition History)

- **SMART FORMULATOR (RESTful API)** One of our clients was using our WebService in order to create/update formulas/products into our Information Network. Implemented create and update formula module.
- **Download ProductTracker with Metrics** involved downloading the data from a product tracker dashboard and populate the available data into an excel of any given format.
- **Managed** a team, conducted **Training** sessions for the entry-level developers and prepared **Training Modules** for various redundant issues and also for Java, JavaScript and MySql fundamentals.

Adjunct Instructor│ University at Albany, SUNY │ Jan – 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

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

- **Object Identification using Open CV in Android** 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

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

- **Web Server using Beagle Board** 7.62 cm × 7.62 cm × 1.6 cm board was made to act like a web server which handled requests from at least 10 Clients. The MicroSD port helped us to import Ubuntu into the board.

System Admin Intern │ University of Albany, SUNY │ 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 also 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.

Research Assistant & Teaching Assistant │ University at Albany, SUNY │ Aug 2015 - Dec 2018
Key Responsibilities (RA)
- 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)

Key Responsibilities (TA)

Organized the lab sessions and also managed discussion sessions for some courses**:** CSI201 - Computer Algorithm and their representation   CSI519 – Advanced Programming Concepts CSI205 – Object Oriented Programming for Data Processing Applications   CSI538 – Computational Logic. CSI210 – Discrete Structures CSI503 – Data Structures and Algorithms.

Education

- University at Albany, State University of New York│ **Master in Computer Science 3.3** │ Dec 2018.
- University of Texas, Arlington **Master in Computer Science 3.7** │ May 2015.
- Anna University, Chennai, India│ **Bachelor in Computer Science & Engineering 3.50** │ Jun 2012.