GANESHBABU THAVASIMUTHU

+1-682-802-9442 - ganeshcodes2@gmail.com

Portfolio - https://ganeshcodes.github.io

EDUCATION

MS, Computer Science · The University of Texas at Arlington, GPA : 4.0/4.0. (August 2016 - May 2018)

BE, Computer Science · Anna University, Chennai, India, GPA : 3.7/4.0. (July 2008 - July 2012)

WORK EXPERIENCE

Fujitsu Network Communications : *Software Development Engineer II* (June 2018 - Present, Richardson, Texas)
- Developed unit tests using Google Test framework for a state machine which has 18 states and about 40 possible transitions.
- Automated 12 test cases using Warrior, an open source automation framework.
- Predicting equipment fault by analyzing the bit patterns for every half a second in several registers in real time.
- Developing a solution using ELK stack for log analysis.

UTA Library Systems and Technology : *Graduate Research Assistant* (June 2017 - April 2018, Arlington, Texas)
- Created new VPC, subnets, and set up web/application server and database server on EC2 instances.
- Configured application ELB with multiple target groups that redirects the request based on host.
- Used Amazon S3 for storing load balancer logs and serving static content for websites.
- Applications hosted on EC2 instances are configured to use Amazon SES for email communication.
- Used Amazon Route 53 to provide DNS resolutions for servers hosted in EC2 instances.

Sirius Computer Solutions : *Full Stack Developer* (July 2012 - July 2016, Chennai, India)
- Church Ordering Portal - Developed login, add to cart, checkout and search functionality for e-commerce website.
- Social Widgets For a Fortune 500 Company - Developed javascript widgets for twitter, meetup and youtube.
- Vryon - A prototype built using Microsoft Kinect SDK, for consumers to virtually try clothes.
- Developed a web and mobile application for uploading and managing the events in any organization.
- Presented a proposal on Rethinking Mobile Digital Experience at IBM Connect Florida 2016.
- Technologies: Java, JavaScript, HTML, CSS, JSP, AngularJS, Node.JS, C#.

TECHNICAL SKILLS

- **Languages:** Java · Python · C · JavaScript · PHP · HTML · CSS · React · Node.Js · Android SDK
- **Cloud:** Amazon AWS (IOT, Lambda, Dynamodb, S3, SNS, SES, EC2, VPC, ELB) · MS Azure · Google Cloud · Heroku
- **Databases:** MySQL · MongoDB · Postgres

ACADEMIC PROJECTS

Source code repository for all the projects: https://github.com/ganeshcodes
Link to all hackathon projects: https://devpost.com/ganeshcodes

Course Projects : (Aug 2016 - Apr 2018)
- Parllel Programming, C - Implemented data parallel algorithm for finding first N prime numbers. Implemented All-to-All broadcast and hot-potato routing using MPI library.
- SelfLearn Android Application, Java - Designed to educate children about various objects by identifying them over a phone's camera. The object's image insights and related tags appears to the user in less than 2 seconds.
- Data Mining Projects, Python - Box and Whiskers Plot, Binning and Normalization for Amazon Book Reviews (8 books comprised of 250K reviews). Mining frequent itemsets and association rules from thousands of transactions from anonymous retail store using Apriori. Bernoulli's Naive Bayes Classifier trained and tested on 1000 scientific articles belongs to three classes.

Hackathon Projects : (Aug 2016 - May 2018)
- Woot IOT, Hacktober - Powered by telecommunications network service provider, it uses AWS IoT to create a robust IoT solution for businesses. Technologies : Python, Node.Js, AWS(IOT, Lambda, SNS, Dynamodb), Google Charts.
- Context Advertising, HackTX - Detects the user in front of the system and displays the ads accordingly. Technologies : Microsoft Kinect, Node.JS, Microsoft Azure, Microsoft Vision
- Twitter Fantasy League, TAMUHACK - Developed a multi-player game based on live public tweets about famous sports players. Technologies : Node.JS, AngularJS, Socket.io, Twitter Streaming API.

EXTRACURRICULAR

- President of UTA ACM (Association for Computing Machinery) Student Chapter. (April 2017)