

GANESHBABU THAVASIMUTHU

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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 III* (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.
- Developed an efficient strategy for reproducing and identifying the root cause of customer issues through automated scripts.
- Proposed an architecture and design for effective log analysis based on ELK stack. Implemented two-phase parallel algorithm for preprocessing multiple log archive uploads from different users before being loaded into ELK.
- Developed end to end log analysis tool that provides sophisticated insights that helps engineers to narrow down the root cause of the problem.
- Building efficient software components for Linux based network devices that enhances customer experience.

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.

TECHNICAL SKILLS

- **Languages:** Java · Python · C++ · JavaScript · PHP · HTML · CSS · Node.js · AngularJS
- **Cloud:** Amazon AWS · MS Azure · Google Cloud · Heroku
- **Databases:** MySQL · MongoDB · Dynamodb

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)

- FTPPro, Java - Implemented command-line FTP server and FTP client using Java sockets and multi-threading. Multiple users can connect with FTP server, upload and download multiple files at a time.
- SelfLearn, Java - Designed an android app to educate children about various objects by identifying them over a phone's camera. It uses Google Vision API to offer insights about captured image along with voice and language support.
- Data Mining, 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.
- Parallel Programming, C - Implemented data parallel algorithm for finding first N prime numbers. Implemented All-to-All broadcast and hot-potato routing using MPI library.

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)