

Gana Teja Akula

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EDUCATION

- Vellore Institute of Technology** Vellore, India
Bachelor of Technology - Computer Science; GPA: 8.77 *July 2016 - May 2020*
Courses: Data Structure and Algorithms, Databases, Operating Systems, Software Engineering, Web development, Parallel and distributed computing, Statistics, Discrete Maths, Graph theory

SKILLS SUMMARY

- Programming:** Java, C++, Kotlin, Python, HTML/CSS, JavaScript, SQL
- Frameworks:** SpringBoot, Django, React, Reactnative, Angular
- Miscellaneous:** Linux, Shell (Bash/Zsh), Firebase, Git., Elastic Search, Kibana, Logstash
- Certifications:** Design Patterns, Parallel programming, C++ Advanced Topics, Applied Text Mining, Image and Video processing

EXPERIENCE

- Reliance Jio - Software Engineer** *Aug 2022 - Present*
Coupon Management Team
 - Enhanced the data fetching significantly TTL in the B2B service component through API calls with Redis Caching by 70% (SpringBoot, Redis)
 - Improved Logging and Debugging mechanism using Elastic Search and Logstash with visualizing in Kibana reducing debug time from 0.5 day to an hour. (ELK)
- Amazon - Software Development Engineer** *July 2020 - June 2022*
Kindle - Core Conversion Team
 - Led project for Pdf to Epub conversion in the AL2 machines in the Amazon format reducing conversion time by 30%(C++ and ruby)
 - Spearheaded the designing of the module for pdf optimisations with Foxit library to run in the AL2 machines (C++)
 - Integrated the modules into the pipelines along with implementing the Workflow changes to run the conversion in AL2 systems(Java, Amazon Ion)
 - Developed the package for supporting conversion of Large files for Comic Kindle books coordinating with 2 partner teams across the kindle org and Comixology team increasing the supported comic books in kindle from 95% to 99% (Java, C++, Amazon Ion)
- Amazon - Software Development Engineer Intern** *Feb 2020 - July 2020*
Kindle - Core Conversion Team
 - Devised support for Incremental Conversion of books from Epub to Amazon format in kindle enhancing publisher's experience by rendering a page every 4 second from an average of 5 minutes for the complete book (Java, C++)
 - Implemented methods to support kindle features in Nested tables in Kindle increasing the tables related features support from 97% to 99.9%(Java)

PROJECTS

- Customised Jukebox (Django, React):** Created an application where one can customize playlist, add their songs, shuffle and download them. The application runs on real-time to work with the users commands and saves the last data up-to 5 days to store for reusing when opened again.
- Online Printing Service (Angular, TypeScript, Firebase):** An online service made using Angular 5 and Firebase to digitize printing services by removing the need of hardware for input. Collaborated with two other developers to use the service in college for making printing easier for the students.
- Recruitment Management System (React, Express, MongoDB):** A web portal made using MERN Stack hosted on Azure to manage the recruitment of candidates in an optimal way. The candidate can apply on the portal by uploading resume and the recruiter can choose with resume to shortlist based on the data by candidates to reduce the manual work which can reduce the turnaround time by days.
- Gesture Recognition Model Optimization Using GA (Python, Tensorflow, Flask):** An Optimized model created using CNN in python with Genetic Algorithm to find the best hyper-parameters and layers. The model gets trained in 50 epochs on the input data returning the optimal model.
- AES With Biometric Key for Voice Messages (Python):** A tool to encrypt with 2 biometric keys i.e. fingerprint and voice using AES encryption for a better secure way to protect account/data. The fingerprint and voice together get encrypted by AES algorithm. When required, the user can decrypt the data using fingerprint and voice giving higher security.