

Santhosh Alagiri Muthukumar

+12015512973 | sm422@njit.edu | linkedin.com/in/santhosh-alagiri-muthukumar

SUMMARY

Result-oriented & meticulous software developer looking for challenging position where I can sharpen my leadership abilities through constantly encountering and solving business problems, and meeting targets. Interactive, willingness to learn and eager to adapt to new technologies.

EDUCATION

MS in Computer Science , NJIT, Newark, NJ	Sept'21 - Present
<i>Data Analytics with R Data Management System Design Internet & Higher Layer Protocol Java Programming</i>	
BE in Computer Science and Engineering , Adhiyamaan College of Engineering, India	Aug'12 – April'16

SKILLS

- Python | R | MySQL | MS Excel for Data Analytics and Interpretation | HTML | CSS | REST API
- ERP Systems : SAP ERP | CRM | ISU
- Tools : Tosca | HP ALM | UFT | Eclipse | WordPress v4.4 | RStudio

WORK EXPERIENCE

Product Test Analyst - Cognizant Technology & Solutions, Coimbatore, India	Apr'17 – Apr'19
• Collaborated with Business and Interface owners to understand the business process/interface design which helped in scripting process thereby eliminating manual work by 95%	
• Smart grid communication technology called Trilliant was used as a platform to test and control smart meter devices which effectively reduced 90% customer complaints	
• Primary source of contact among a 12 member team for a new sales application UI redesigned for easy purchase of energy utilities by the customers	
• Trained 6 summer interns on the need of the hour automation technologies and handling crisis management during project delivery.	
• Facilitated testing strategy for Unit testing, Regression testing and User Acceptance testing for all enhancements reducing production incidents by over 40%	
• Conducted Knowledge Transfer session to 5 new recruits and provided support on technologies during the training phase	
Project Management & Development Intern - Staunthire Technologies, Chennai, India	Dec'15 - Mar'16
• Made a responsive E-commerce website using Wordpress that had an interactive User Interface	
• Integrated with multiple plugins including payment gateway, SEO tools(search engine optimisation tools), shipment tracking	

PROJECTS

Networking Optimization - New Jersey Institute of Technology, USA	Feb '21 - Current
• Created and studied the Transportation, Assignment and Transshipment models for a logistics dataset coded in R using lpSolve and lpSolveAPI package.	
• Generated a Sensitivity Report for the dataset to understand the impact on the conclusions.	
SONAR ApacheMQ - New Jersey Institute of Technology, USA	Nov - Dec '21
• Hosted an ApacheMQ server to communicate messages between a producer and multiple consumers written in Java following store and forward network topology	
• Setup a Time To Live connection that kept the server's connection alive in the absence of any data arriving from the producer	
• Generated a seven character authentication key wherein all authentic messages will be signed using this key	
Packets and Delays - New Jersey Institute of Technology, USA	Sept - Oct '21
• Developed a Sender and Receiver program in Java running on two different local servers to fetch a bunch of packets	
• Proactively detected the loss and efficiency of a network through constant monitoring of packet transmission without using wrapper classes or Math libraries	
• Packets were read off the wire using basic mathematical programming conversions	
E-Library Application - Adhiyamaan College of Engineering, India	Oct '15
• Hosted a reliable, fault tolerant E-Library Access System Application on AWS with Android Studio. REST API was utilized to communicate over the network using the http methods to access and use data	
Eye Bank - Adhiyamaan College of Engineering, India	Oct - Nov '14
• Devised a beta application to register donors, designed in English and Tamil. The application holds all details about eye bank list, eligibility criteria, process of donation and viability of storage	

CERTIFICATIONS

• Tosca Automation Specialist Level 1	July 18
• Tosca Automation Specialist Level 2	Nov'18
• Toastmasters International Competent Communicator	Mar'17

VOLUNTEERISM & AWARDS

- Associate of the Quarter, Going the Extra Mile (Cognizant Technology Solutions, India Jan - Mar 2019)
- Inter Carrom Championship Cognizant - 4th place (Cognizant Technology Solutions, India Dec 2018)
- Special Performer of the Team (Cognizant Technology Solutions, India Oct - Dec 2017)
- Presented a paper on "RWD based E-commerce website" in the TEQIP – II sponsored 3rd National Conference (Government College of Engineering, India Mar 2016)