Chaitanya Nalluru

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# EDUCATION

**Purdue University, (**GPA: 3.86/4.0)

*Master Of Science in Computer Science* Jan 2023 *-* May 2024

## Vellore Institute of Technology (VIT)

*Bachelor Of Technology in Computer Science* July 2017 *- June* 2021

# SKILLS

**Advanced**: ReactJS, React ,sass,Python, C/C++, Robot framework, Toby & JT frameworks,networking, selenium, Javascript,Typescript, HTML, CSS,front end,cloud, back end,test automation, testing, troubleshooting, website development,communication,SQL,database,Shell scripting, programming, problem solving, routing,switching, UI,UX design, figma, TCP/IP, test automation,UAT, test planning, documentation,Quality assurance, test execution, QA automation,scrum,automated testing,design, debugging,PowerShell,API,Microsoft office suite,platform services, SAP, MS Office,oop,problem-solving,analysis,automated tests, software testing, integration test,Technical,aws, software developer,analytical skills , software development,agile,PHP,excel,Git,object-oriented programming,continuous integration,SDLC,Cypress,Tableau,scripting,  infrastructure integration, QA,JIRA,github,sql servers, powerpoint, bdd, .NET,communication, Junit,Decision Making,software development, analytical,JSON,jQuery,Jenkins,Validation.

**Familiar:** Machine learning,AI, Java, RESTful APIs,node.js,Android,Angular, Vue,analytical,user experience,CI/CD.

# WORK EXPERIENCE

**TATA Consultancy Services (TCS)** *Hyderabad, India*

*Software Engineer**October 2021 – December 2022*

* Worked with the routing and switching team as an automation test engineer for the client Juniper Networks.
* I used Robot, JT, and Toby frameworks to test and troubleshoot the network products and protocols and write test scripts in routing and switching divisions of the client and performed regression testing of the new image builds of routers.Created test plans for the routing scripts.
* Decreased the script running time by 20 percent by testing them with various test beds and domains that are compatible.

**EdFox Technologies** *Chennai, India*

*Data Analyst Intern* May 2020 – July 2020

* Worked alongside the Information technology team and conducted real-time Twitter data analysis using Apache spark Streaming to derive insights into user engagement and trends.
* Developed Python scripts to create and manage Spark Streaming applications, processing live Twitter data streams for near-real-time analytics on extensive datasets.
* Applied machine learning algorithms for sentiment analysis and trend prediction, enriching the understanding of user sentiment and achieved 15 percent improvement in accuracy and 35 percent reduction in false positives.

**MyCaptain** *Bangalore, India*

*Business Development Executive* December 2020 – June 2021 Involved in procuring leads in the customer oriented EdTech market, targeted marketing campaigns, training and leading a team of interns and expertise in all levels of a sales pipeline.

# PROJECTS:

## Conways Game of Life | C++, High Performance computing, [Parallelization September 2020](http://www.shodor.org/media/content/petascale/materials/UPModules/GameOfLife/Life_Module_Document_pdf.pdf)

* Developed and optimized Conway's Game of Life, implementing algorithmic enhancements, parallelization strategies, and memory optimizations.
* Reduced execution time by 25% and achieved almost 10% reduction in memory consumption.
* Increased the number of generations processed per second from 55 to 70, resulting in 40% boost.

**Social Network Analysis | Python** December 2019

* Developed a comprehensive character interaction network by analyzing relationships and connections in the book ‘The Divergent’ and applied centrality metrics like degree, betweenness and closeness.
* The character interaction network has 50 nodes and 120 edges and a degree centrality ranging from 10 to 30. Created graphs illustrating the character network's structure and dynamics in Gephi.

## UniDive | React , MongoDB, springboot May 2023

* Created a web application that is a one-stop solution for degree seeking students to know and learn about the universities comprehensively with insider knowledge as part of my Web Development team project.
* Developed dynamic content rendering mechanisms to showcase real-time updates on university details and integrated external APIs to fetch data such as admission statistics, student reviews, and campus events.
* Reduced API response times by 20%, resulting in an average response time of 160 milliseconds.

# CERTIFICATIONS

Applied Social Network analysis - Coursera Certified by University of Michigan and HubSpot (CRM) Certification