

# Sainath Talakanti

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## EDUCATION

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### The University of Georgia

Master of Science in Computer Science  
CGPA: 3.3/4

Athens, Georgia

Aug 2023 - Present(May 2025)

### Guru Nanak Institutions Technical Campus

Bachelor of Technology in Computer Science & Engineering  
CGPA: 3.49/4

Hyderabad, India

Aug 2019 - July 2023

## TECHNICAL SKILLS

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**Programming Languages** : Java, C, Python, Kotlin, C++, Rust, Scala

**Web Technologies** : HTML, CSS, JavaScript/Typescript, React

**Operating Systems** : macOS, Windows, Linux

**Technologies** : Artificial Intelligence, Machine Learning, Knowledge Graphs, Graph Databases, Data Science, Computer Vision & Image Processing, Cloud Computing, Convolutional Neural Networks, Socket Programming, Distributed Computing Systems, Docker, Kubernetes

**Databases** : MySQL, PostgreSQL, Neo4j

**IDE & other Tools** : IntelliJ, VS Code, Eclipse, PyCharm, Jupyter, Git

## WORK EXPERIENCE

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### Virtusa

Student Intern

Hyderabad, India

January 2023 - April 2023

- Developed an application that converts currencies using React JS.
- Worked with a team of ten, enhanced teamwork & communication, and learned to develop projects.

## PROJECTS

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### Comparative Analysis of CNN Algorithms for Image Classification

Mar 2024 - May 2024

**Technologies:** Python, Convolutional Neural Networks, Tensorflow, Image Classification

- Trained, tested and performed analysis on three CNN models i.e. AlexNet model, VGGNet-19 model, and ResNet model over Image datasets CIFAR-10, CIFAR-100, and ImageNet.
- The aim was to compare the performances of CNN models over different datasets.

### SilverScreener: A Movie Ticket Reservation System

Oct 2023 - Dec 2023

**Technologies:** Java, Maven, Springboot, MySQL, JSP, HTML, CSS, JS, JDBC

- Developed a fully functional Full Stack web application for booking movie tickets.
- The aim was to design an application with an active database that stores encrypted passwords, is free of redundancies and multi-dependencies.

### A Dynamic Task Load Balancing Scheme for Miscellaneous Clouds

Mar 2023 - July 2023

**Technologies:** JSP(Java Servlet Pages), HTML, CSS, MySQL, REST API, JDBC

- Developed a task load balancer that expects utilization capacity of each VM using finite state Markov process and distributes tasks to all VMs such that load does not increase.
- The aim was to reduce the workload on Virtual Machines, increase the average response time and makespan of the system.
- Made a dynamic model where the Load Balancer is independent of tasks that proactively distribute tasks among VMs using the Markov chain rule.

### Privacy and Anonymous Key Agreement for Cloud Computing

Sep 2022 - Jan 2023

**Technologies:** Java, JSP(Java Servlet Pages), HTML, CSS MySQL, REST API, JDBC

- Developed a KGC(Key Generation Center, a trusted third-party) that takes user and cloud provider's identity and generates long term partial private keys for each that can be used for authentication.
- The aim was to introduce a protocol that establishes a security to public channel for secure communication between Cloud users and Cloud service providers by adding TLS Handshake protocol(0-RTT), Certificate-less cryptography, and a strong long key agreement to the existing AKA(Authenticated Key Agreement) protocols.
- This protocol not only satisfies the traditional security attributes (e.g., known-key security, unknown key-share), but also strong security guarantees, i.e., user privacy and bad randomness resistance.

## HONOURS & INVOLVEMENTS

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- Named as "Life of the Party" at my workplace(Student Assistant).
- Worked as a Student Coordinator in the Placement Department of my undergrad school.
- Participated in Hackathons.
- Had been a part of many voluntary activities.