

Sainath Talakanti

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Education

The University of Georgia

Master of Science in Computer Science
CGPA: 3.3/4

Athens, Georgia
Aug 2023 - Present

Guru Nanak Institutions Technical Campus

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

Hyderabad, India
Aug 2019 - July 2023

Skills

Programming Languages : Java, C, Python, Kotlin

Web Technologies : HTML, CSS, JavaScript/Typescript, Angular

Operating Systems : macOS, Windows, Linux

Technologies : Artificial Intelligence, Machine Learning, Computer Vision, Image Processing, Cloud Computing, Convolutional Neural Networks, Socket Programming, Distributed Computing Systems, Docker, Kubernetes

Databases : MySQL, PostgreSQL

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

Experience

Virtusa

Title: Student Intern

Hyderabad, India
January 2023 - April 2023

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

Academic Projects

Comparative Analysis of CNN Algorithms for Image Classification

Mar 2024 - May 2024

Technology Stack: Python, Convolutional Neural Networks, Tensorflow, Image Classification

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

SilverScreener: A Movie Ticket Reservation System

Oct 2023 - Dec 2023

Technology Stack: Java, Maven, Springboot, MySQL, JSP, HTML, CSS, JS

- Developed a fully functional web application for booking movie tickets.
- The aim was to design an application that is free of redundancy and multi-dependencies.

A Dynamic Task Load Balancing Scheme for Miscellaneous Clouds

Mar 2023 - July 2023

Technology Stack : JSP(Java Servlet Pages), HTML, CSS, MySQL

- Developed APIs for all the entities(User, Data Center, Cloud Provider, Data Owner).
- The aim was to reduce the workload on Virtual Machines by Task-based Load balancing using the Markov chain process.
- 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

Technology Stack : Java, JSP(Java Servlet Pages), HTML, CSS MySQL

- Developed APIs for all the entities(Cloud User, KGC, Cloud Service Provider).
- The aim was to establish a secure channel over a 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.
- Developed a key generator that acts as a core that holds the data of entities and generates individual keys for them which can be able to update at any time.

Honours & Achievements

- Named as "Life of the Party" at my workplace(Chick-fil-A Student Assistant).
- Worked as a Student Coordinator in the Placement Department of my undergrad school.
- Participated in Hackathons.
- Named as a Good leader for taking responsibility for my class.
- Had been a part of many voluntary activities.