

NOBEL CHOWDARY MANDEPUDI

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EDUCATION

University of Florida, Gainesville, FL 2022 - 2023
Master of Science: Computer Science CGPA: **3.7/4.0**
Courses: *Data Structures and Algorithms, Distributed Operating System, Computer Networks, UX Design, Computer Architecture, Software Engineering and Machine Learning*

Sreenidhi Institute of Science and Technology, Hyderabad, India 2018 - 2022
Bachelor of Technology: Electronics and Computer Engineering CGPA: **3.9/4.0**
Honor: Awarded with **Gold Medal** for being a top performer during the course

SKILLS

DevOps	Ansible	Jenkins	Docker	Kubernetes	Terraform	OpenShift	Podman
Cloud & AI	AWS	Azure	GCP	Deep Learning	OpenCV	CNN & RNN	TensorFlow
Tools	Confluence	Git	REST	Linux	MongoDB	Cassandra	Postgres
Web Dev	HTML	CSS	JavaScript	Spring Boot	Flask	Django	MySQL
Languages	Python	Java	C++	C	Erlang	Shell Scripting	Go

EXPERIENCE

Graduate Research Assistant Jan 2023 - Present
University of Florida Health *Gainesville, FL*

- Prediction of COVID-19 clinical outcomes for specific subpopulations by developing a tailored predictive model using techniques like case-based reasoning, nearest neighbors prediction, and penalized regression.
- Utilizing the Julia programming language, the model leverages the advanced category-theoretic features available in the Algebraic Julia package collection, ensuring both computational efficiency and interpretation.

Cloud Solutions Intern May 2023 - Aug 2023
Arm *Austin, TX*

- Developing the Cassandra infrastructure on AWS using Terraform and Ansible for performance benchmarking.
- Developing a web-based visualizer for Go's garbage collector, enhancing the system's memory management.
- Contributed in developing Ansible module that extend support of Nginx on Arm.

Software Engineer Intern Mar 2022 - May 2022
AT&T *Hyderabad, India*

- Enhanced the AT&T website using Spring Boot and Java, resulting in improved UI and functionality.
- Optimized system performance by implementing a caching mechanism in a microservice architecture, boosting data retrieval speed.

Software Engineer Intern Oct 2021 - Mar 2022
Axiom IO *Hyderabad, India*

- For the client Nxtq Private Limited, I played a key role in creating a product that offers athletes insights for improved running motion.
- Designed the insights workflow using Python, ensured seamless integration of application components and managed the server deployment.

DevOps Intern Aug 2021 - Oct 2021
TerraBlue XT *Bengaluru, India*

- Architected the infrastructure design and maintained the highly resilient server infra on the AWS cloud following the industry best practices.

PATENT

New Gen Faucet

Journal No: 16/2022, Journal Date: Apr 24, 2022

- Received a **Design Patent** (Application Number: 334216-001) for an innovative product **New Gen Faucet** and secured a grant of **400000 INR** from the Government of India for incubation support.

PROJECTS

Tweeter Bot

Nov 2022

- Created a Twitter-like platform with a client simulator and an integrated engine for tasks like registration and tweet dispatches. Leveraging a WebSocket interface with the Gossip protocol ensured efficient tweet exchanges. The robust system built with Erlang capably managed 5,000 concurrent simulated clients.

Kubernetes Integration with Python-CGI

Jul 2021

- Designed and deployed a Flask web app with a UI enabling users to run Kubernetes operations using plain English commands. The platform integrates features like custom pod naming, specific deployments, port-oriented service exposure, and replica adjustments, all presented with a straightforward menu guide.

Live Streaming Video Chat App

Jun 2021

- Contributed to the creation of a multi-user Live Streaming Video Chat App using Python's CV2 module, integrating socket programming for real-time communication and ensuring an optimized user experience.

High Availability Proxy Load Balancer

May 2021

- Participated in the deployment of a scalable load balancer on AWS using Ansible, optimized to support a million users, while streamlining the automation of multiple web server setups.

Website Development

Apr 2021

- Designed and implemented robotic electronics blog, meticulously optimizing content and user experience, which resulted in consistently attracting an organic monthly traffic of 10,000 users, showcasing the site's growing popularity and relevance in the niche.

CERTIFICATIONS

Microsoft Certified Azure Fundamentals

Sep 2021

RedHat Certified Specialist in Container and Kubernetes

Apr 2022

CONFERENCES

International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques

Organized by: IEEE

Dec 2021

- Presented a paper titled 'Deployment of Multi-Tier Application on Cloud and Continuous Monitoring using Kubernetes' at the conference accredited by IEEE.

International Conference on Information Systems and Computer Networks

Organized by: IEEE

Oct 2021

- Presented a paper titled 'Deploying Hadoop Architecture Using Ansible and Terraform' at the conference accredited by IEEE.

PUBLICATIONS

Automated Pipeline for the Deployment using OpenShift

Journal: Elsevier

Accelerating the Machine Learning Model Deployment using MLOps

Journal: IOP Science

LEADERSHIP

Technical Head - Roboveda'21

Aug 2021 - Dec 2021

- Coordinated with all the technical activities of a National Level Technical Fest which had a footfall of 100,000 people. Managed all the events and collaborations with other clubs and external agencies.

Technical Advisory Board Member - The Robotics Club SNIST

Jul 2020 - Aug 2021

- Collaborated with multiple teams to develop different robot prototype designs and victory in ten hackathons across India with cash prizes of 100,000 INR.