

# GUNESH NAGOTHI

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## EDUCATION

**Anil Neerukonda Institute of Technology and Sciences,**  
*B-Tech in Information Technology*  
2021 – 2025 | Visakhapatnam, India  
CGPA : 9.84


**Sri Chaitanya Junior College,** *Intermediate, MPC*  
2019 – 2021 | Visakhapatnam, India  
Percentage : 96.8

**Bhashyam Public School,** *High School, 10th class*  
2019 | Visakhapatnam, India  
GPA : 10.0

## PROJECTS

**Biomedical Lab Companion,**  
*Streamlit PyPDF2 Langchain GoogleGeminiAPI*   

- Allows users to interact with PDF documents using generative AI.
- Extracts text from PDFs, generates embeddings, and provides a conversational interface for querying the document with 84% better user engagement.

**FoodFinder: Zomato Clone,**  
*MongoDB, Node.js, Express.js, React, Pymongo, JSON*   

- Implemented Docker Compose and Memcached, significantly reducing system latency and improving response times upto 60%.
- Designed and deployed a full-stack application with multi-container orchestration, ensuring efficient resource management and scalability.
- Integrated advanced caching mechanisms, enabling quick data retrieval and improving the overall responsiveness of the application.

**NAS, Raspberry Pi**  

- Designed and configured a Network-Attached Storage (NAS) system using Raspberry Pi 4 and external USB storage devices.
- providing a cost-effective and accessible solution for centralized data storage and backups.

## HARD SKILLS

**Cloud-Computing and Networking**  
AWS, Google-Cloud-Platform

**Java**  
Core Java, AWT, Swing, JDBC

**Database Management System**  
MySQL, MongoDB, OracleDB

**Operating Systems and CI/CD**  
Jenkins, Linux, Docker

**Programming Languages**  
Java, C, Core-python


**Web Development**  
Node.js, Express.js, React(basics)

## EXTRA CURRICULAR ACTIVITIES

**Event Organiser**  
I have been the tech-lead of Coding Ninjas ANITS chapter and organised Competitive programming workshops.

**Dancing and Drawing**  
I have won ANITS Cultural Fest 2023 Shield of Excellence.

## PROFESSIONAL EXPERIENCE

**Research Intern at NIT,**  
*Under the guidance of Dr.Sanjeev Patel*   
05/2024 – 07/2024 | Rourkela, India

**Energy-Aware Virtual Machine Placement Project using Cloudsim 3.0.3**  

- Developed and implemented an innovative VM allocation and migration technique leveraging 3D Bin Packing and Deep Reinforcement Learning using Cloudsim 3.0.3.
- The VM allocation and migration technique optimized energy consumption by approximately 43% compared to classical Binpacking.
- Demonstrated significant improvements in resource utilization and efficiency.

## ACHIEVEMENTS

**As Google Developer Student Clubs - Cloud Domain Tech-Lead**  

- Seamlessly led from introducing GDSC to hosting successful Study Jams. Delivered valuable skill-building opportunities.
- Rewarded with sought-after swag items like T-shirts and stickers from Google Developers Group.

**As Coding Club Vice-Lead**  

- Managed many successful events from Coding club ensuring the Students grab the golden opportunities from the club by networking and skill-building.

**Academic Excellence**  


- Three consecutive semesters with a 10.0 SGPA highlights my steadfast dedication to academic excellence.


**In Entrepreneurial events**  

- Finalists in V-Launch Annual Business Pitching event 2024 at VIT Amaravati by a software project 'Doc-in'.
- Achieved 1st position in the Entrepreneurship Club's Market Mario and Startup Symposium events for innovative ideas in Radian fest 2k24.

## CERTIFICATES

**Oracle Cloud Infrastructure AI Certified Foundations Associate,** *Oracle* 

**Assosiate Cloud Engineer learning path,** *Google* 

**AWS Cloud Practitioner Essentials,** *AWS* 

**Google Professional Cybersecurity certificate,** *Google* 

**AWS Solutions Architect Job Simulation,** *Forage* 

## COURSE-WORK

- Operating Systems*
- Database Management Systems*
- Object Oriented Programming Concepts*
- Computer Networks*

## SOFT SKILLS

Problem Solving | Flexible and Adaptable |  
Effective Communication | Strong Leadership |  
Avid Learner | Self - Starter | Organized