

# NITHIN RAJ CHANDA

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## Education

Southern Methodist University, MS in Computer Science, CGPA: 3.711/4.0 Aug 2023 - May 2025  
Guru Nanak Institutions Technical Campus, BS in Computer Science, CGPA: 3.56/4.0 Aug 2019 - Jun 2023

## Skills

Programming Languages	Python, Java, JavaScript, R, SQL
Web Technologies	React.js, Node.js, Flask, RESTful APIs, Tailwind CSS, Java Spring Boot
Machine Learning	PyTorch, Keras, TensorFlow, CNN, Deep Learning, PCSANet
Cloud and DevOps	Oracle Cloud, AWS, Git, GitHub, CI/CD, Kubernetes, Docker
Databases	MySQL, MongoDB
Soft Skills	Technical Leadership, Project Management, Analytical Thinking

## Experience

Full Stack Developer (Our Saviour Community Garden) May 2024 - Oct 2024

Engage Dallas Internship Dallas, TX

- Built the organization's (Non-Profit Organization) first website using React.js for the frontend, Flask for the backend, and MySQL for managing content dynamically.
- Implemented a secure admin portal, donation tracking system, that streamlined operations by reducing administrative tasks by 20 hours per month and enhancing organizational efficiency.
- Launched the organization's website on Oracle Cloud Infrastructure, incorporating robust security measures and a CI/CD pipeline that automated updates, resulting in increased platform reliability and uptime by 35%.
- Enabled a 45% growth in user activity, and facilitated a significant increase in donations within 6 months.

Graduate Teaching Assistant (Operating Systems) Jan 2024 - Present

- Guide students through complex OS concepts including process management, memory allocation, and file systems.
- Grade programming assignments focusing on C, Java and Python implementations.

Teaching Assistant (Foundations of Modern Computing) Jan 2025 - Present

- Assist students with fundamental computing concepts and programming paradigms.
- Conduct weekly lab sessions and guide students.

Machine Learning Intern (Skill Vertex) May 2022 - Aug 2022

FIFA player Analysis

- Built FIFA Player Analysis predictive models with 85% accuracy to assess player performance.
- Optimized data preprocessing by 30% using Pandas and Scikit-learn, Ranked player potential efficiency by 40%.

Employee Promotions and Startup Case Study

- Optimized decision-making for HR policies with a 25% improvement in promotion predictions.
- Automated data pipeline, increasing data ingestion speed by 35%, Enhanced model performance by 20%.

## Projects

### Enhancing Thorax Disease Classification

- Developed an advanced medical imaging classification system using PCSANet.
- Built a full-stack website for chest X-ray image analysis, enabling classification across 12 thorax disease categories.
- Achieved 63% accuracy in disease classification, improving diagnostic efficiency.
- Implemented the solution using PyTorch, JavaScript, and RESTful APIs for seamless integration.

### Fruit Stage Identification Using Image Processing

- Engineered real-time visual processing systems using Deep CNN to analyze conveyor-belted fruits with precision levels exceeding industry standards while maintaining a throughput rate upwards of 100 pieces per minute.
- Designed and refined machine learning algorithms to analyze surface textures of fruits; achieved a 20% increase in identification accuracy for oranges, apples, and bananas during production line assessments.
- Created comprehensive documentation demonstrating enhanced staging efficiency for apples, oranges, and bananas.
- Implemented real-time processing capabilities for continuous fruit quality monitoring in production environments.

## Leadership and Activities

Mustang Band Drumline Member Aug 2024 - Present

- Perform at Southern Methodist University athletic events, elevating team spirit through dynamic performances.

Interfaith Fellow, Office of Chaplain and Religious Life Aug 2023 - Present

- Lead and organize cultural festivals celebrating diversity and facilitate interfaith dialogue and community building initiatives.

Computer Science Club Feb 2024 - Present

- Part of a team developing website for health analytics, while implementing predictive models for disease analysis through data mining projects.

## Awards

- Recipient of Southern Methodist University's Best Student Employee Award 2023-24 for outstanding contributions to university operations and academic excellence.