

Yasesvi Reddy Pebbeti

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Summary

Master's student in Computer Science at SUNY Polytechnic Institute, specializing in software engineering and full-stack development. Skilled in building scalable applications using React, Node.js, and Python, with experience deploying cloud-based systems and optimizing performance through data-driven solutions.

Education

SUNY Polytechnic Institute

Master's of Science in Computer Science

Aug 2024 – May 2026

Utica, NY

Osmania University

Bachelor of Engineering in Information Technology

Nov 2020 – Jun 2024

Hyderabad, India

Experience

Graduate Assistant — SUNY Polytechnic Institute

College of Health Sciences & College of Engineering

Sep 2024 – Present

Utica, NY

- **Guided by Dr. William “Amos” Confer (Sep 2025 – Present):** Support academic evaluation and grading workflows; compile nationwide Computer Science PhD program data to aid accreditation and external reviewer outreach.
- Assisted in preparing department-level evaluation reports and maintaining structured datasets for long-term academic review.
- **Guided by Dr. Nicolau DePaula (Sep 2024 – Aug 2025):** Automated climate-data analysis using Python and BeautifulSoup, integrating satellite and environmental datasets; built AWS-hosted dashboards and visualization tools improving research efficiency by 30% and maintaining 99% uptime.
- Contributed to research data curation and web maintenance tasks supporting ongoing climate and sustainability studies.

Web Development Intern — Code IT Consulting

Next.js & JSON

Aug 2025 – Oct 2025

Remote, United States

- Built multi-tenant SaaS platform (Next.js, Node.js, MongoDB) powering 60+ client websites.
- Implemented subdomain routing and CI/CD (GitHub Actions, PM2) achieving zero-downtime releases.
- Collaborated in Agile sprints improving release velocity by 20%.

Research Intern — Indian National Center for Ocean Information Services (INCOIS)

Remote Sensing & Data Analysis

May 2023 – Jun 2023

Hyderabad, India

- Processed oceanographic datasets (Python, QGIS) to support marine climate modeling.
- Applied ML-based statistical models accelerating analysis by 20%.

Projects

Multi-Tenant Conference Platform

Next.js, Node.js, MongoDB, NGINX, VPS

Aug 2025 - Oct 2025

[\[GitHub/Live\]](#)

- Engineered subdomain-based architecture with dynamic tenant JSON configs for 5+ live events.
- Deployed scalable build via PM2 & NGINX, achieving 99.9% uptime on Hostinger VPS.

Parallel Sorting Algorithms: Performance Profiling

OpenMP, MPI, Pthreads, C, Linux

Jan 2025 - May 2025

[\[GitHub/Live\]](#)

- Optimized sorting algorithms via multi-threading and memory profiling, reducing runtime by 45%.

Plant Disease Identification & Pesticide Recommendation

Python, TensorFlow, CNN, OpenCV, Flask, Streamlit

June 2024 - Dec 2024

[\[GitHub/Live\]](#)

- Developed a Convolutional Neural Network (CNN) to classify plant diseases with 97% accuracy using image datasets.
- Integrated a Flask-based backend and Streamlit interface to recommend optimal pesticides and display disease insights.

Technical Skills

Languages: Python, C++, JavaScript, Java

Frameworks: React, Node.js, Express, Django, Flask

Cloud & Tools: AWS, Docker, Git, PM2, Linux, CI/CD, NGINX

Databases: MongoDB, SQL

Publication

Yasesvi Reddy Pebbeti, et al. “Plant Disease Identification and Pesticide Recommendation Using CNN.” *IJIRCCE*, Jun 2024. [\[Paper Link\]](#)