

CHALLA AMANENDER REDDY

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Professional Summary

Recent Master of Science in Computer Science graduate from Florida Atlantic University, currently on OPT and actively pursuing full-time, internship, or volunteer roles in software development, testing, and data science. With prior experience as a Test Engineer at Wipro and strong technical expertise in Java, Python, ML, and web technologies, I'm passionate about contributing to mission-driven organizations and gaining professional experience in the U.S. tech sector.

Technical Skills

Programming Languages and Frameworks: C, C++, Java, Python

Web Technologies: HTML5, CSS3

Operating Systems: Windows, Linux

Database: SQL

Machine Learning and Data Science: Supervised Learning, Unsupervised Learning, Regression, Classification, Clustering, Model Evaluation, Feature Engineering

Education

Florida Atlantic University

August 2023 – April 2025

Master of Science in Computer Science

- GPA: 3.6 / 4.0

Professional Experience

Project Engineer – Test Engineer L1

Wipro Limited, Hyderabad, India

March 2022 – August 2023

- Led end-to-end validation of web applications, ensuring functionality, usability, and performance aligned with client requirements.
- Executed comprehensive testing plans, identified and documented defects, and collaborated with development teams for timely fixes.
- Validated post-refactoring code changes, ensuring seamless integration and maintaining system stability.
- Participated in the integration and verification of new features, contributing to enhanced application capability and user experience.

Certifications

- **Microsoft Certified: Azure Fundamentals (AZ-900)**

June 29, 2022

Projects

Modeling and Predicting Cyber Hacking Breaches

Description: Initiated a comprehensive study on modeling and predicting cyber hacking breaches. Proposed a stochastic process model to accurately predict both hacking breach incident inter-arrival times and breach sizes. Applied both qualitative and quantitative trend analysis on the dataset using the Support Vector Machine (SVM) algorithm.

Technologies: Python, HTML, CSS

Respiratory Analysis Detection of Various Lung Infections Using Cough Signal

Description: Addressed the significant issue of Pulmonary chronic lung diseases. Utilized lung sound analysis for precise detection of various lung conditions. Implemented a modern computerized analysis to achieve enhanced diagnostic accuracy. Disorders tackled include Asthma, Bronchitis, Emphysema, Tuberculosis, and Pneumonia. Developed a feature extraction method from audio datasets and trained a model using the Convolution Neural Network (CNN) algorithm.

Technologies: Python, HTML, CSS

Availability & Interests

Available immediately for remote or in-person full-time, internship, or volunteer roles. Interested in nonprofit technology initiatives, civic tech, open-source contributions, and projects related to healthcare, education, or sustainability.