

Abinaya Odeti

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Education

University of North Carolina at Charlotte

Charlotte, NC

Master of Science in Computer Science, GPA:3.9/4

Jan 2024 – May 2025

Technical Skills

Languages/Frameworks: Python, Java, C, C#, JavaScript, C++, Perl, Angular, SQL, MongoDB, HTML/CSS, SVG, Flask, Selenium, React.js, Express.js, Angular, Django, Node.js, .NET.

Tools/Technologies: Git, AWS, Azure, Linux, Docker, Postman, Jenkins, Jira, APIs, D3.

Data Science/ML: Regression, Classification, NLP, Neural Networks, TensorFlow, OpenCV, Tableau.

Networking and Storage Technologies: TCP/IP, LAN/WAN, Routing, Switching, SAN, NAS, Block storage, 3PAR, Nimble storage, storage concepts, Cache Accelerated Sequential Layout (CASL).

Experience

Systems/Software Engineer I, Nimble Storage

Aug 2022 – Dec 2023

Hewlett Packard Enterprise, India

- Developed scalable solutions within the **Nimble product** that improved data retrieval times by **30%**, resulting in increased system responsiveness while ensuring integrity of both block and object storage operations.
- Implemented web server optimizations, including reducing CPU/RAM usage and improving system responsiveness for enterprise-level applications.
- Contributed to storage system consolidation by merging storage units, optimizing resource allocation, and tuning configurations to improve data access speed and overall system performance.
- Engineered and implemented robust attribute caching systems utilizing **C++** and **Perl**, achieving a increase in data retrieval speeds while enhancing overall system responsiveness across the Nimble storage platform.
- Enhanced Volscan to display detailed block data and established communication protocols between arrays, ensuring secure volume synchronization post-recovery.
- Exhibited exceptional problem-solving abilities by managing and resolving critical customer escalations, debugging, and fixing issues promptly, while maintaining 24/7 availability to ensure swift and effective solutions.

Research and Development intern

Jan 2022 - Jul 2022

Hewlett Packard Enterprise, India

- Research and Developer Intern at AOE in Bangalore. Gained a comprehensive understanding of **SAN, NAS, Block storage, File storage, LAN/WAN, Routing, Switching**, distributed storage architectures focused on System Test for **HPE 3PAR storage** and various storage protocols.
- Developed parallel features for the "Smart Template Library Enhancement" using **Python** and gained hands-on experience with Test Automation Frameworks.

Projects

Personal Budget Allocation Website | React, Angular, JavaScript, MySQL, Node.js, Express.js, D3.js, HTML, CSS -[Git](#)

- Engineered a web-based budget application using **React** and **JavaScript** with a **MySQL** backend, enhancing accuracy in budget allocation and monthly expense tracking. Built server-side logic with **Node.js** and **Express.js**, and incorporated visualizations like **pie charts** and **bar charts** operating with **D3.js**. Ensured secure user authentication.

Interactive Flight Delay Visualization Application | Tableau, javascript, D3, HTML, CSS -[Git](#)

- Created interactive web app using **D3.js** to analyze US flight delay data from 2011-2020. Employed data-driven storytelling to uncover delay causes, airport hotspots, and relationships between delay types.
- Developed [linked visualizations](#) to compare on-time/canceled flights, weather versus carrier delays, and identify delay causes, and relationships between delay types through data-driven storytelling.

Classification of Fragile States Index and Action Rule Generation | WEKA, LISP-Miner, Python.

- Classified countries into Fragile States Index categories using socio-economic, political, and environmental data. Preprocessed and engineered features to enhance model performance.
- Achieved high accuracy and actionable insights through classification and rule mining.

Detection of Non-Helmet Rider using YOLO and CNN | OpenCV, TensorFlow, Keras, NumPy, Matplotlib.

- Developed helmet detection system for motorcyclists using improved **YOLOv2/YOLOv3** models. Utilized a three-level deep learning approach to detect persons, motorcycles, helmets, and license plates from video, achieving a high accuracy of **95%** in real-time performance.
- Published in Journal of [Applied Science and Computations](#).

Certifications

- Problem Solving Through Programming in C, in NPTEL platform, Completed "Introduction to Programming Using Python, in Udemy, Micro Certifications in RDBMS, Java, Web development, C, in Communication skills in Cognizant Digital Nurture program, participated in Workshops on Robotics and Cyber Security conducted by JNTUH.