Jayawanth Rayakota Harnath

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Education

University of North Carolina

May 2025

Masters of Science in Computer Science - Data Science

Certifications

- MongoDB Certified Associate Developer — AWS Certified Solutions Architect

Experience

Open Source Developer - Hackathons

Jan 2024 – Present

- Optimized Rocket. Chat queries, reducing execution time by 40% and API latency by 30%.
- Streamlined FitCheck App API integrations, cutting latency by 25% and boosting engagement by 15%.
- Enhanced TensorFlow Addons with a custom loss function, improving accuracy by 12% and fixing 5+ compatibility issues.

Software Engineer - IBM

Nov 2022 – Dec 2023

- Automated machine learning workflows via Python/Flask APIs for IBM Db2 Warehouse, cutting manual efforts by 90% using IBM Watson Orchestrate.
- Built FastAPI microservices for IBM Watson Document Processing, boosting parsing accuracy by 40% and response times by 75%.
- Designed pytest frameworks with 95% code coverage, reducing post-deployment defects by 90%.
- Developed ReactJS dashboards integrated with IBM Cognos Analytics, accelerating decision-making by 20% for 5+ business units.
- Optimized ETL pipelines on IBM Cloud Pak for Data, reducing runtime by 30% and improving data quality by 15%.
- Streamlined CI/CD using Red Hat OpenShift and Tekton, cutting deployment time to 10 minutes and integration failures by 50%.

Software Engineer - Kyndryl

April 2022 - Nov 2022

- Built scalable backend services with Spring Boot, handling 10,000+ users at 99.9% uptime.
- Improved ML recommendation accuracy by 18% and reduced training time by 25%.
- Optimized data pipelines, cutting ingestion latency by 40% for 1M+ users.
- Created ReactJS dashboards for 5+ business units, improving decision-making by 20%.
- Reduced pipeline runtime by 30% and improved data quality by 15%.

Skills

Programming Data Structures and Algorithms (DSA), C, Java, Python, JavaScript

Web Frameworks Spring Boot, FastAPI, Next.Js, REST APIs, Microservices

Big Data/Cloud Hadoop, PySpark, Hive, Sqoop, AWS, GCP, MySQL, MongoDB

Developer Tools Docker, Git, Google Colab, Anaconda, CUDA

Projects & Research

Cybersecurity Framework Implementation

 Developed and tested cybersecurity protocols using TCP/IP, VPN, and DNS, ensuring network security and data protection in alignment with Santee Cooper's focus on Cybersecurity.

Photo App — ReactJs

Developed a scalable React-based photo sharing application with MongoDB as the and Material UI for the frontend.

College Bus Management System using RFID for Attendance and Covid-19 Monitoring

- Developed an IoT-based smart home healthcare support system for remote patient monitoring during Covid-19, reducing unnecessary hospital burdens.
- Designed and tested the system using heartbeat, body temperature, room temperature, O2, and max30100 sensors, ensuring real-time monitoring of patients.
- Coded and implemented the system, successfully integrating IoT-based tools for continuous patient care and remote monitoring.

Qualifiers2Finals Application

 Created a Qualifiers2Finals application using Android Studio to automate the management of local Basketball and Volleyball tournaments, reducing manual workload for organizing, scheduling, and scoring.