SAIKUNDAN SUDAPALLI

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Enthusiastic Computer Science master's student with a robust background in C++ and Python development, backed by **two years of hands-on experience at TCS**. Specialized in customizing trading platforms for the Multi Commodity Exchange client, demonstrating the ability to thrive in dynamic environments. Passionate about Artificial Intelligence and Machine Learning, I bring practical skills in developing algorithms and models. Eager to contribute to AI/ML projects that leverage my expertise in data analysis and predictive modeling, acquired through real-world applications.

Experience

NOV 2021 – NOV 2023

C++ and Python Software Developer | Tata Consultancy Services | Hyderabad India

Experienced C/C++ Developer with a proven track record in the BSFI Vertical, contributing significantly to the Multi Commodity Exchange (MCX) trading platforms. Over 2 years of expertise in enhancing critical components and driving innovations.

Key Accomplishments:

- **C++ Development Excellence:**
  - Elevated trading platform sophistication by mastering crucial components like Order Book Interface, Market Data Distribution, Info Feed and seamless integration with Kafka.
  - Measured by: Enhanced analytical prowess through meticulous C++ craftsmanship.
- **User Base Surge:**
  - Propelled a 1 million user increase by optimizing the Enhanced Order Book Interface.
  - Measured by: Staggering growth in user engagement and market footprint.
- **Info Feed Triumph:**
  - Engineered a low-latency Info Feed for alpha clients, surpassing expectations and elevating satisfaction levels.
- **Git Flow Optimization:**
  - Orchestrated seamless Git flow implementation, resulting in a 30% increase in collaboration efficiency.
  - Measured by: Error-free code deployments and enhanced version control.
- **CI/CD Efficacy:**
  - Architected a robust CI/CD pipeline with bash, Python, and Ansible, achieving a 40% reduction in deployment time.
  - Measured by: Improved deployment reliability by 25%.
- **Jenkins Platform Migration Marvel:**
  - Helmed Jenkins Platform migration, integrating 100 branches into GitLab in an impressive 6-hour timeframe.
  - Measured by: Achieved a 60% time-saving and a surge in overall team productivity.
- **Python Deployment Symphony:**
  - Orchestrated a Python-powered deployment symphony, slashing deployment time by 50% across 100 servers.
  - Measured by: Enhanced efficiency and time utilization.

- **Timely Environment Handover:**
  - Ensured a flawless environment handover well before live trading, instilling confidence during critical hours.
  - Measured by: Seamless transition with zero disruptions.
- **SLA Reporting Excellence:**
  - Automated Python scripts for monthly SLA report extraction, reducing report generation time by 30%.
- **Automated Systems Mastery:**
  - Automated system checks, minimizing manual effort by 20% and fostering a proactive and reliable system.

APRIL 2021 - OCT 2021
MLOPS Engineer | River Bend Data Solution | Hyderabad India

Designed an on-prem MLOps platform to provide end-to-end services for frictionless training, validation, deployment and monitoring of ML models based on Open-Source software, including a CI/CD component for ML . Designed a workflow template using DVC for Data Scientists to confidently develop datasets and models with unit testing integrating a CI/CD pipeline written in GitLab CI/CD specification.
Wrote tests and GitLab CI pipelines for deployment of thoroughly tested models on their data

Skills

Languages: C/C++ • Python • Java • Assembly(x86) • JavaScript • Bash

Technologies/Frameworks: Cmake •Tensorflow•Sciktlearn•Pandas•Numpy•Pytorch•Qiskit•Django•Flask

Debugging tools: GDB •PDB •EDB • Ghirdra •Cutter

Education

JAN 2024 – DEC 2024
Master of Computer Science - Machine Learning & Cyber Security | University of North Georgia, Dahlonega USA
Relevant Courses: Deep Learning | Business Intelligence | Advanced Reverse Engineering
JULY 2017 – AUG 2021
Bachelor of Technology in Computer Science Engineering | VJIT | India Hyderabad |GPA: 2.82/4.0
Key Subjects: ALGORITHM DESIGN | DATABASE MANAGEMENT | SOFTWARE ENGINEERING | DATA STRUCTURES | OPERATING SYSTEMS | COMPUTER NETWORKS | WEB DEVELOPMENT | PROGRAMMING LANGUAGES: C++, JAVA, PYTHON | DESIGN PATTERS | HCI

Projects

Air Interface Scribbling Pad: Innovative HCI project using OpenCV •Allows users to draw in the air, enhancing digital interaction.

Stock Prediction System with Zerodha and Yahoo API: Implemented an LSTM model for stock trend prediction Leveraged Zerodha API for real-time stock data and Yahoo API for historical data.