SAI KUNDAN SUDAPALLI

Portfolio: https://ironman20121.github.io/My-Tech-Universe/

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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%.

- **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:**

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

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

Embarking on my career as an ML engineer in a dynamic startup environment, adaptability became my forte. In the ever-evolving tech landscape, I swiftly grasped ReactJS basics within a tight two-month timeline. The startup's agility demanded quick learning, leading me to successfully integrate machine learning models using TensorFlow.js into React.js applications. Transitioning seamlessly from ML to ReactJS underscored my commitment to versatile skill acquisition. The startup culture not only nurtured my machine learning expertise but also pushed me to explore new territories. As I continue to evolve, this journey exemplifies my resilience and ability to swiftly master diverse technologies to meet the demands of an ever-changing startup landscape.

Skills

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

Technologies/Frameworks: Cmake • Tensorflow • Sciktlearn • GIT • 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.