

Bethvour Newness Chike

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EDUCATION

Jackson State University

Bachelor of Science in Computer Engineering - GPA: 4.0

Jan 2023 – present

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, SQL, HTML/CSS, Bash

Frameworks: React, Node.js, Flask, Kubernetes, Airflow, Argo, MongoDB

Tools: Git, Docker, TravisCI, Google Cloud Platform

Libraries: TensorFlow, pandas, NumPy, OpenCV, MediaPipe

EXPERIENCE

Bloomberg - Software Engineering Intern

June 2024 – Aug 2024

ENG Core - Derivates Data Streaming

San Francisco, California

- Led orchestration and optimization of large-scale data streams using Python and Argo, improving throughput by 20%.
- Integrated scalable machine learning workflows in Apache Airflow, ensuring efficient task scheduling for real-time data processing.

Regenstrief Institute, Inc. - Software Engineering Intern

Jun 2023 – Jul 2023

Data Engineer Department

Indianapolis, Indiana

- Developed a decision-support tool "Health Dart" that processed large volumes of clinical data, improving data analysis speed by 37%.
- Leveraged Python and Flask to enhance system scalability and ensure fast data retrieval across distributed systems.

META - Metascholar

Mar 2024 – May 2024

Meta & Thurgood Marshall College Fund

- Collaborated with industry leaders in web3, blockchain, and AR/VR technologies. Contributed to projects enhancing virtual reality interfaces, resulting in a 10% performance increase.
- Contributed to a team that developed a VR training simulation which was tested and improved training efficiency by 20% for new employees.

PROJECTS

TradeSim Pro

- Designed and implemented market data simulation module using C++ for high-performance data generation and replay, and integrated real-time data feeds via APIs.
- Developed multiple trading algorithms (market making, arbitrage, momentum trading) in C++ and Python, including backtesting capabilities with Python libraries such as Pandas and NumPy.
- Utilized Git for version control and Docker for containerization and deployment, ensuring efficient collaboration and scalable deployment of the platform.
- Created a user interface using Python and C++, featuring both a command-line interface (CLI) and a graphical user interface (GUI) for real-time market data display, portfolio performance, and trading activity.

QuizBot Gemini

- Engineered a HR training chatbot allowing users to test knowledge across various topics, enhancing user engagement by 40%.

Grandma's RecipeBox

- Attracted over 200 active users within the first six months post-launch, catering to both seasoned chefs and beginners.
- Enabled over 1000 recipes to be saved and accessed remotely, with users logging in an average of 4 times per week to access their personalized content.
- User feedback rated the interface usability 4.8/5, with over 3,000 recipes added monthly. Sharing features resulted in a 40% increase in user interactions through social sharing functionalities.

AI Virtual Mouse

- Achieved 98% accuracy in hand gesture recognition, drastically reducing input errors and enhancing user interaction.
- Optimized algorithm to reduce gesture recognition latency by 50%, achieving real-time interaction speeds of under 100 milliseconds.
- Overcame challenges related to varying lighting conditions and user hand sizes by implementing adaptive thresholding and dynamic scaling in MediaPipe

QuantumBull

- Developed a trading algorithm for SPY equity using QuantConnect's QCAAlgorithm framework, backtesting from March 2022 to March 2023.
- Achieved successful backtesting and performance analysis, leveraging QuantConnect's Slice API to handle real-time market data.