

Christopher Edward Yeu

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Education

Texas Southern University | B.S. in Computer Science | GPA: 3.28/4.0 Houston, TX | 01.2023 - 05.2025

Skills
Python, C++, C#, .NET Framework, JavaScript, HTML, CSS, Pandas, NumPy, PyArrow, Parquet, Wireshark, Metasploit, Nmap, Penetration Testing, Network Security, Vulnerability Assessment, Incident Response, Unit Testing, Debugging, Logging, MetaMask, ethers.js, Web3, Ethereum, Decentralized Wallets, Matplotlib, Seaborn, Logarithmic Scaling, Data Binning, ETL Pipelines, API Integration, Software Testing, Data Validation, Documentation.

Experiences

Hackathon Swap Project Houston, TX | 01.2025 - 02.2025

- Developed a **Python-based** pipeline to collect, process, and visualize cryptocurrency swap transactions and trade data.
- Extracted and processed over 2GB of Binance ETH/USDT trade data using **Pandas** and **PyArrow**, ensuring structured storage in **Parquet format** for efficient data handling.
- Transformed raw trading data by calculating price differences in percentage and aligning swap prices with mid-market prices using **NumPy**, improving data consistency and accuracy.
- Resolved **API** deprecation issues by transitioning from the **Uniswap GraphQL API** to manually downloaded Binance datasets, ensuring continuous data collection.
- Implemented automated data validation using **Pandas**, identifying and handling missing columns and inconsistencies, reducing processing errors by **30%**.
- Applied software testing and debugging practices, including **print debugging, assertion checks, and logging**, to systematically identify and resolve data processing errors.
- Utilized unit testing techniques and stepwise execution** to verify data integrity at each processing stage, ensuring correctness before proceeding.
- Visualized** trade size vs. average trading cost across exchanges using **Matplotlib** and **Seaborn**, applying **logarithmic scaling and data binning techniques** to enhance readability.
- Delivered a streamlined ETL pipeline** with clear documentation, ensuring **reproducibility and ease of use** for future data analysis.

Code Path Cybersecurity Program Remote | 02.2025 - Current

- Engaged in an intensive 12-week cybersecurity training program covering foundational and advanced security concepts through industry-led instruction.
- Gained hands-on experience in penetration testing, network security, vulnerability assessment, and incident response through practical labs and real-world simulations.
- Developed proficiency in tools like **Wireshark, Metasploit, and Nmap** for both defensive and offensive cybersecurity techniques.

Crypto Donation Platform Mockup Houston, TX | 01.2025 - 2.2025

- Designed and developed a responsive cryptocurrency donation platform using **HTML, CSS, and JavaScript**.
- Integrated wallet connection functionality with **MetaMask** and implemented blockchain interactions using **ethers.js**.
- Created a user-friendly interface allowing users to input donation amounts and simulate cryptocurrency transactions.
- Demonstrated understanding of **Web3** technologies and basic blockchain principles, including Ethereum and decentralized wallets.
- Improved user experience, ensuring seamless wallet integration and transaction simulation.

Vertex Bank Houston, TX | 05.2024 - 08.2024

- Developed a **C++** based Bank Account Management System with deposit, withdrawal, and balance tracking features.
- Implemented **OOP** principles, file handling, and **dynamic memory management** for efficient data handling.
- Demonstrated real-world software development by utilizing **STL** and ensuring **modular, scalable** design.
- Designed for future expansion into a **GUI or web-based system** to enhance user experience.