Yuqi Zou

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EDUCATION

Carnegie Mellon University, PA, USA, 2022 – 2026
- GPA 3.75/4
- Bachelor of Science in information systems, High Honor

TECHNICAL SKILLS

Programming Language: Python(advanced), Java, HTML, CSS, Javascript, C++
Frameworks & libraries: Pandas, Pytorch, React,
Development & Tools : Linux,, Blender, Figma, Unity

PROFESSIONAL EXPERIENCE

Meta Maps, *Data Analyst intern* 2023 Summer
- Worked in a group of three to develop a modular object detection system using the **YOLOv7**
- Engineered sophisticated post-processing techniques, including bounding box scaling, refining detection accuracy and relevance.
- Achieved a **20% increase** in image preprocessing speed
- Utilized **Python** for backend logic, integrating **Axios** for API interactions.
- Ensured efficient and streamlined operations with the **MongoDB** database, optimizing data storage and retrieval.

PROJECTS

College housing platform 2022 August
- Developed a college housing platform that allowed students to share and rate each other with the five star scale
- Leveraged the **React** library for front-end development, combined with **HTML, CSS,** and **JavaScript** for webpage construction
- Enhanced **25% page responsiveness** through the integration of the Ant Design UI library
- Engineered back-end logic using **Python** and **Django** frameworks.
- Incorporated **Axios** for creating HTTP requests to interact with the back-end API.
- Utilized **PyMongo** for efficient management of the MongoDB database.
- Operated in an agile environment, leading weekly stand-up meetings and sprint planning.

Automated Trading Platform 2023 November
- Developed a comprehensive cryptocurrency **trading strategy backtest** and live testing platform utilizing Binance's API, enabling users to import key technical indicators and run strategies
- Engineered a sophisticated visualization tool allowing users to graphically analyze backtest and live test results.
- Integrated functionality for setting precise stop loss conditions, optimizing risk management and improving trading outcomes.
- Achieved a **30%** reduction in trade execution latency by integrating WebSocket Feeds for real-time data streaming and deploying the application on high-performance Virtual Private Servers (VPS).
- Implemented advanced caching mechanisms for **Level 2 (L2) order book data**, facilitating in-depth backtesting capabilities.

EXTRACURRICULAR ACTIVITIES

Carnegie Autonomous Racing, *Driverless sector Member* 2022 – Present
- Build autonomous systems through experiential learning and driverless racing to solve tomorrow's problems.
- Compete in global Autonomous racing F1TENTH and FSD

CMU Blockchain Club, *Representative* 2022 – Present
- Created a decentralized blogging platforms utilizing **HTML**, **CSS, Javascript** and **React**