Ryley Ziegler

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EDUCATION

Towson University Baltimore, MD
Bachelor of Computer Science Dec. 2022

PROJECTS

MallardAI | *Python, Swift, Heroku, Flask, MongoDB* Mar. 2024 – Present
- Conceptualized and developed a sports AI application focused on predicting NBA game outcomes leveraging historical matchup data.
- Engineered a V1 predictive model using SWAR's NBA API, with plans to expand its capabilities to include player data for enhanced accuracy and depth.
- Implemented automated processes via cron jobs on Heroku, ensuring daily updates of player information and team matchup data in the database. This optimization significantly enhanced data retrieval efficiency for the Swift app's frontend, mitigating the resource-intensive nature of direct API calls.
- Employed Flask to construct a Python-coded API, facilitating seamless backend operations for the application.

Wavpool | *Solidity, React, Ipfs, Hardhat* Dec. 2022 – Mar. 2023
- Pioneered the creation of a comprehensive full-stack web3 application, enabling users to immerse themselves in captivating beat competitions.
- Executed the deployment of a smart contract on the Ethereum blockchain, facilitating user participation in competitions through a seamless buy-in process. This contract also facilitated NFT minting and empowered users to cast votes for their favorite beats.
- Employed Ipfs technology to store NFT audio files (mp3/wav) and their accompanying metadata.
- Utilized Hardhat and Ethereum devnet for testing and validation.

WORK HISTORY (WHILE SEARCHING FOR A PROGRAMMING POSITION)

Freelance Web Development | *Tailwind, JavaScript* Jan. 2024 – Present
CTC Machining Site Hampstead, MD
- Developed a custom website without a backend, emphasizing proficiency in front-end development.
- Utilized a free email retrieval API to optimize operational costs, showcasing resourcefulness and practical coding solutions.
- Implemented custom features such as contact form validation, slideshow integration, and auto-scrolling buttons, demonstrating advanced coding skills and attention to detail.
- Provided ongoing maintenance and support, including troubleshooting and client feedback incorporation, highlighting dedication to quality assurance and client satisfaction throughout the development process.

Bartender Apr. 2018 – Present
Illiano's J&P Hampstead, MD
- Manage dual bars simultaneously, orchestrating seamless and effective communication among co-bartenders and patrons.
- Craft beverages not only for bar clients but also for servers, swiftly following restaurant recipes to ensure optimal profit margins.
- Cultivate a positive ambiance through a blend of professionalism and humor.
- Spearhead training for new staff members and adeptly filled in during staffing gaps.

TECHNICAL SKILLS

Languages: JavaScript, Python, Solidity, SQL, HTML/CSS, R
Frameworks: React, Node.js, Hardhat, WordPress, Material-UI, Bootstrap, Tailwind, Flask
Developer Tools: Git, Visual Studio, PyCharm, PhpStorm, MongoDB
Libraries: ethers, openzeppelin, pandas, NumPy, Matplotlib