Joel Hilliard

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EXECUTIVE SUMMARY

- Entry level engineer with a passion for creating responsive, user friendly applications
- Experienced with Front-end development using Angular and React, as well as back-end solutions using Python, Java or Node including Blockchain technology
- Excited to be on a team, learn new technologies, and grow as an engineer

TECHNICAL SUMMARY

Languages - Python, JavaScript, Typescript, SQL, HTML, CSS, Bash, C, C++, Java, Node, Swift
Applications / Frameworks – Flask, Express, Visual Studio, Angular, React, Spring Boot
Databases – MySQL, MongoDB, Firebase
Others - AWS, CloudFlare, Git, Agile Methodologies, CI / CD, Data Analytics, Data Visualization, UI / UX

WORK EXPERIENCE

Software Engineer, Consensus Tax   Sep 2021 - May 2022
- Managed a tax calculation software project. Met weekly to discuss progress and planned action based on the clients feedback.
- Utilized React.js for the front-end development, creating a user interface that met the client's specifications.
- Worked on back-end development using Flask and Python, and integrated MongoDB for data management, ensuring smooth operations and safe data handling.

Research Development Lead, University of Missouri – Columbia, MO   Jan 2023 - May 2023
- Wrote a COVID-19 data visualization front-end using Angular, focusing on an interactive and intuitive UI that accurately represented the emerging research data.
- Held weekly meetings with the Team Lead to understand data requirements and discuss potential visualizations to enhance the web-app.
- Developed a Flask API to easily extract data from an SQL database, ensuring accurate and quick data flow between front-end and back-end components.

PROJECTS

Filedrop – filedrop.xyz
- Created a quick and easy way to transfer files between computers. It utilizes Cloudflare R2 for object storage.
- All data is encrypted before upload and decrypted on download. The user never has to log-in, only remember an access code.

Ethfees – ethfees.xyz
- Developed a React web application designed to assist Ethereum network users in tracking their spending on network fees, which can help come tax season.
- Implemented a Python back-end system to speed up load times using caching, and to automate updating user entries in a MongoDB database for continuous accuracy and efficiency.

Nssy – nssy.xyz
- Developed a React web-app where users can input their crypto holdings and see visualizations based on their portfolio.
- Utilizes public APIs to deliver up-to-date crypto-currency prices.

EDUCATION

Bachelors of Science in Computer Science | Minor in Mathematics   2019 - 2023
University of Missouri – Columbia, *Specialization: Algorithm development, Full-stack development, UI/UX*   **GPA : 3.4**