

Joel Hilliard

hilliard_joel@yahoo.com | joelhilliard.com

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 or Node including Blockchain technology
- Excited to be on a team, learn new technologies, and grow as an engineer

EDUCATION

Bachelors of Science in Computer Science

2019 - 2023

University of Missouri - Columbia

GPA : 3.4

Specialization: Algorithm development, Full-stack development, UI/UX

TECHNICAL SUMMARY

Languages - Python, JavaScript, Typescript, SQL, HTML, CSS, Bash, C, C++, Java, Node, Swift

Applications / Frameworks – Flask, Express, Visual Studio, Angular, React

Databases – MySQL, MongoDB, Firebase

Others - Linux, Windows, MacOS, AWS, Git, Agile Methodologies, CI / CD, Data Analytics, Data Visualization

WORK EXPERIENCE

Software Engineer, Consensus Tax

Sep 2021 - May 2022

- Managed a crypto 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, covlab.xyz

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.
- Used Python for back-end data processing.

PROJECTS

ETHFEES – ethfees.xyz

- Developed a React web applications 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 enhance load times using caching, and to automate updating user entries in the NoSQL database for continuous accuracy and efficiency.

NSSY – nssy.xyz

- Developed an Angular web-app where users can input their crypto holdings and see some visualizations based on their portfolio. Implemented a Express/Node API to serve the price data.
- A Python script automatically fetches prices from public API and updates the MongoDB that holds the current and historical prices.