

# Joel Hilliard

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## EXECUTIVE SUMMARY

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- 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

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**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

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**Software Engineer**, Consensus Tax (Start-up) 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

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### 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

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**Bachelors of Science in Computer Science | Minor in Mathematics**

University of Missouri – Columbia, *Specialization: Algorithm development, Full-stack development, UI/UX*

2019 - 2023

**GPA : 3.4**