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**EMPLOYMENT**

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**Software Developer** **Vesst** **Dec 2019 - Present**

- Developed full applications and APIs with scalability and high-performance in mind; refactored APIs, schemas, and models across several projects improving maintainability of code and reducing the frequency of bugs experienced.
- Integrated caching of requests, models, and queries to reduce request times and faster client-side performance.
- Solved obscure issues and downtime related to database and web server setup, bringing uptime from 30% to 99%.

**Software Developer** **Lexxify** **Feb 2020 - Nov 2020**

- Redesigned the entire application ranging from infrastructure to actual implementation for a more efficient, high-quality product and user experience.
- Established internal documentation and practices to reduce overhead and improve developer experience.
- Built utilities and APIs to be used for internal and external consumption providing more consistency in responses, behavior, and ease of use.
- Incorporated project management techniques to maintain constant growth and increase frequency of updates.

**Software Developer** **Lets-go.design** **Jul 2019 - Dec 2019**

- Added and maintained new features to both the admin and user-facing parts of the application, increasing exposure and adoption of the product.
- Obtained knowledge and guidance on best practices and asynchronous collaboration, resulting in a greater focus on quality through documentation and code review.

**Software Developer** **CarbonWebPrint** **Jan 2019 - Jul 2019**

- Built a reporting dashboard for clients to view analytics resulting in increased profits and client retention.
- Focused on efforts towards optimization and efficiency of applications and sites to improve user experience and general production quality.

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**PROJECTS**

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**Layout Hierarchy and UX**

- Developed a comprehensive Python application which implemented AWS Alexa APIs and performed image manipulation using OpenCV to standardize results and maintain constant features.
- Implemented a clustering algorithm to determine commonalities in layouts and designed several layout variants based on clustering results.
- Built a web app to randomly display a variant to a user and record their behavior; analyzed user behavior by looking at various UX metrics and patterns associated with layouts.
- Wrote an extensive research paper detailing the process, results, and implications, as well as possibilities for future research and real-world implementation.

**BoardVitals API**

- Reverse-engineered API requests to automatically query and parse exam questions/answers from a bank based on exam ID and authentication cookies.

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**SKILLS**

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(*proficient*): PHP, Laravel, JavaScript, HTML/CSS, React, Vue, Git (*familiar*): SQL, Python, Unix, AWS