
EMPLOYMENT

Software Developer	Vesst	Dec 2019 - Present
<ul style="list-style-type: none">• Structured full design and API systems with high-scalability and 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 and queries made by services for reduced wait times and faster client-side performance.• Solved obscure issues and downtime related to database and web server setup, preventing further downtime and loss; managed several large-scale projects simultaneously.		
Software Developer	Lexxify	Feb 2020 - Nov 2020
<ul style="list-style-type: none">• 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, increase frequency of updates, and ensure that there was constant collaboration across the team.		
Software Developer	Lets-go.design	Jul 2019 - Dec 2019
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Built a reporting dashboard for clients to view analytics resulting in increased profits and client retention.• Furthered collaboration skills through the instruction of colleagues and pushed for changes in architecture, translating into more clients and projects.		

PROJECTS

Layout Hierarchy and UX

- Developed a comprehensive Python application which implemented AWS Alexa APIs, scraped pages, and performed image manipulation using OpenCV to standardize results and maintain constant features.
- Implemented a clustering algorithm to determine commonalities in most popular global website 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 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 QA

- Reverse-engineered API requests to automatically query and parse exam questions/answers from a bank based on exam ID and authentication cookies. Manipulated API responses to display data concisely using JSON, implemented basic throttling to reduce the frequency of requests.

SKILLS

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