

Kevin Zhu

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PROJECTS

ExpLore — Full Stack Developer

May 2023 - September 2023

- Developed a dynamic web app aimed at assisting explorers in discovering destination hotspots remotely.
- Created a map interface with MapBox GL JS, integrating live data from Yelp Fusion API and user requests.
- Managed 10,000+ locations across 500+ cities using PostgreSQL for improved data storage and retrieval.
- Increased query efficiency by over 15% from optimizing large datasets in PostgreSQL, resulting in faster load times for user searches.

Spendfolio — Full Stack Developer

April 2023 - May 2023

- Developed a finance tracking web application using Bootstrap, ensuring a responsive and intuitive user interface that enhanced user interaction and retention by 10%.
- Leveraged Django's authentication to implement user access features and enhanced privacy and security.
- Implemented data visualization features that allow users to analyze 1,000+ data entries per session using Chart.js to foster greater awareness of their financial trends.
- Implemented 5 unique data visualizations, including pie charts and line graphs, allowing users to gain insights into their spending patterns across categories and to better assess their future financial decisions.

Phonebook Web App — Full Stack Developer

September 2023 - October 2023

- Developed a dynamic single-page application using the MERN stack to enhance user engagement.
- Applied modern web development principles with React to reduce load time and improve user experience.
- Utilized MongoDB for efficient data storage, supporting over 100 user entries with faster retrieval times.
- Created RESTful APIs with CRUD operations, enabling real-time data updates and achieving a 30% improvement in retrieval speed.

Online Tech Portfolio — Full Stack Developer

August 2023 - November 2023

- Built a custom portfolio from scratch, avoiding templates to enhance web design skills and create a personalized showcase.
- Adopted modern web development practices to create a responsive layout with cross-device compatibility.
- Enhanced scalability and optimized visual performance, resulting in a 20% reduction in load time and increase in user engagement.

TECHNICAL SKILLS

Programming: Experienced with Python, Proficient with JavaScript, Java, C++

Database: Proficient with PostgreSQL, MongoDB, SQL

Frameworks: Proficient with Django, MERN Stack (MongoDB, Express.js, React.js, Node.js), Bootstrap

Others: Git/Github, HTML5, CSS3, MapBox GL JS, Chart.js, Postman

Development Practices: Responsive Web Design, RDBMS, Agile Software Development Methodologies

EDUCATION & DEVELOPMENT

University of California, San Diego

September 2016 - June 2020

Bachelors of Science - Human Biology

Object Oriented Design and Programming, Data Structures and Algorithms, Software Tools and Techniques

Self-Learning Initiatives

Python Programming, Data Structure Analysis/Implementation, Algorithms, Project-Based Learning, Frontend Practices

Full Stack Open

React Components and Event Handlers, RESTful APIs, Data Management, Application Deployment