# 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