IAN MANN

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- TECHNICAL SKILLS -

JavaScript (ES6+), React, Node, Express, SQL (PostgreSQL), NoSQL (MongoDB, Supabase), TypeScript, AWS (RDS, DynamoDB, S3), Git/Github Flow, Git, Next.js, Redux, React-Router, RESTful APIs, CI/CD with Vercel, Docker, JWT/BCrypt, OAuth, Jest, HTML, Sass + CSS, Webpack, GitHub Actions, Jira, Chart.js, Tensorflow.js, Azure, C++, Excel, ArcGIS, WordPress, Final Cut Pro

- EXPERIENCE -

Software Engineer || *NextLevel* - *Metric tracking dashboard for Next.js applications*   ***OSLabs (Remote)*** *|| June 2024 - Present*

➤ Built a performance metric dashboard with Next.js utilizing its static site generation and server-side rendering capabilities to achieve faster page loads, improved SEO, and synchronous data tracking, improving developer efficiency and functional productivity.

➤ Developed a tailored npm package using Node.js and Next.js, designed for effortless integration with Next.js environments, automating the collection and analysis of performance metrics to support ongoing application optimization and elevated user experience.

➤ Leveraged Express.js and Node.js to optimize server load times and streamlined request/response cycles by implementing their asynchronous processing capabilities to handle multiple concurrent requests efficiently, resulting in reduced server response times and strengthened overall application performance.

➤ Harnessed React to craft versatile user interfaces, capitalizing on its component-based architecture and virtual DOM for fast updates and smooth transitions, ensuring quicker load times, responsive interactions, and a more intuitive and enjoyable user experience.

➤ Integrated NextAuth and OAuth authentication using Google and GitHub, applying their secure, user-friendly login mechanisms to provide seamless and secure access for users, enhancing security, improving user convenience, and increasing user trust.

➤ Utilized Chart.js to design interactive data visualizations, leveraging its customizable chart types and responsive design to present real-time complex data intuitively and engagingly, providing clearer insights and enhancing user comprehension.

➤ Implemented NoSQL (MongoDB) database solution for storing user information and user-generated data, using its flexible schema design and high performance to handle large volumes of user-profiles and activity logs, ensuring efficient data storage, quick retrieval, and scalability to meet growing application demands.

➤ Deployed the live NextLevel application through Vercel, utilizing its seamless integration and automated deployment features to ensure continuous delivery and effortless scaling, resulting in reduced deployment time and increased application reliability.

- OPEN SOURCE -

Software Engineer || *Job Hub* - *Job application tracker*   *July 2024*

➤ Applied Redux to manage state in a job application tracker app, setting up a centralized store, defining actions and reducers, and implementing async middleware, ensuring consistent tracking of applications, simplified debugging, and an enhanced user experience.

➤ Wrote unit and integration tests using Jest to ensure codebase reliability by testing core functionality, API endpoints, state management, and user interactions, effectively identifying and fixing bugs to maintain code quality and deliver an efficient application.

Software Engineer || *LunchBox* - *Meal prep planner and tracker*   *July 2024*

➤ Configured PostgreSQL to maintain user credentials and user-created content, leveraging its robust schema design, powerful querying capabilities, and ACID compliance to ensure data integrity, efficient storage, and quick retrieval for a growing user base.

➤ Employed Bcrypt to hash user passwords, ensuring secure storage and robust protection against unauthorized access by utilizing strong encryption and salting techniques, thereby enhancing overall application security and adhering to industry best practices for data protection.

➤ Configured Webpack to bundle and manage JavaScript, CSS, and other assets, leveraging its modular architecture and plugins to enhance build efficiency, minimize file sizes, and streamline resource loading, resulting in faster development cycles and easier maintenance.

- EDUCATION -

The University of California, Riverside || *School of Business Administration*
Bachelor of Science in Finance

➤ **Relevant Coursework:** *Intro to Computer Programming - Intro to Computing - Computer Science for Science, Math & Engineering I & II (C++) - Information Technology Management - Business Application of GIS (GIS)*

➤ **Achievements:** *2022 UCR FSIC President of the Year - 2023 UCR Career Success Program Certificate of Achievement - UCR Chancellor's List - UCR Deans List - 2018 UCR Achievement Scholarship - Ethical Decision-Making Certification*

- TALKS AND PUBLICATIONS -

Tech Talk Sponsored By Scismic - *"A Deep Dive Into Neural Networks"*   *July 2024*

➤ Delivered a tech talk to 50+ software engineers detailing the architecture, history, and applications of neural networks.

➤ Explained key concepts and best practices, highlighting neural networks' crucial and transformative impact on various industries.

➤ Covered ways in which software engineers could utilize neural networks and demonstrated a demo of Tensorflow.js usage.

Medium Article - *"NextLevel: Optimize Your Next.js Applications"*   *August 2024*

- INTERESTS AND HOBBIES-

Hobbies: Skiing, Waterskiing/Wakeboarding, Sailing, Hiking, Gyming, Meal Prepping, Violin, Chess, Reading, Video Creation
Interests: Guitar, DJing, Music Creation, Neural Networks/Machine Learning, Rental Arbitrage