JOSHUA MCNABB

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PROFESSIONAL SUMMARY

Dedicated and highly skilled software developer with nearly 6 years of industry experience in full-stack development. My expertise lies in modern web technologies, seamless backend integration, and performance optimization. I have a proven track record of delivering high-quality solutions across diverse sectors, including oil and gas, healthcare, and logistics. With a strong foundation in React, NestJS, and CI/CD automation, I excel in creating dynamic, scalable, and efficient applications. My proficiency in database management, API integration, and frontend frameworks, combined with a commitment to best practices and continuous learning, positions me as a valuable asset to any development team.

CORE QUALIFICATIONS

- **React Development:** Expert in building dynamic and responsive user interfaces using React, leveraging state management techniques and lifecycle methods to optimize application performance.
- **CI/CD Process Automation:** Proficient in automating continuous integration and deployment processes using tools like GitHub Actions and GitLab Pipelines, enhancing development workflows and reducing time-to-market.
- **API Integration Techniques:** Skilled in integrating complex APIs using OAuth for secure authentication and maintaining robust communication between frontend and backend systems.
- **Database Management Systems:** Experienced in designing, implementing, and managing databases using SQL and NoSQL technologies, ensuring data integrity and scalability.

AREAS OF EXPERTISE

ChakraUI Expertise | NestJS Proficiency | Puppeteer Usage | Horizontal Scaling Techniques | Queue Management Systems | TypeScript Programming | Data Visualization Expertise | HTML/CSS Design | jQuery Utilization | PHP Development | Laravel ORM Implementation | React Native Development | Expo Platform Usage | Object-Oriented Programming | C# Development | Java Programming

WORK HISTORY

Senior Full-Stack Software Developer, **Earth Drilling (Self-Employed)** – Calgary, Canada, 09/2023 - Current

- Overhauled the entire purchase order system for the oil & gas web application, dramatically improving the UI/UX to deliver a modern, seamless user experience, and enhancing overall system interactivity and aesthetic appeal.
- Added essential functionalities that enabled users to upload files, create invoices, and track parts within the system, significantly enhancing system versatility and user engagement.
- Developed and implemented an Excel export feature for purchase orders, greatly facilitating more efficient data management and reporting processes, thereby streamlining workflow and productivity.
- Addressed and resolved significant issues related to job scheduling and timezones, ensuring accurate synchronization with user timesheets and substantially improving data reliability and operational consistency.
- Integrated user timesheets with a bespoke financial solution, optimizing financial data management and boosting operational efficiency across the organization.
- Spearheaded the adoption of responsive design principles, ensuring that the application's interface performs seamlessly across various devices, thereby enhancing accessibility and user satisfaction.

Senior Full-Stack Software Developer, **Launchcode** – Calgary, Canada, 11/2020 - 08/2023

- Took on the role of project lead after a two-month collaboration with the Lead Developer, successfully guiding the project to its completion and ensuring all objectives were met to the client's satisfaction.
- Exceeded client expectations through in-depth collaboration to deeply understand their requirements, resulting in a customized product that significantly enhanced their operational capabilities.
- Drastically reduced the client's time spent on manual data recording in the field by 50%, significantly boosting operational efficiency and data accuracy.
- Mentored a junior developer on the technical stack, project architecture, and industry best practices, thereby accelerating their professional development and enhancing the overall effectiveness of the project team.
- Led the strategic overhaul of the frontend for a critical Cisco healthcare application, dramatically improving system scalability and structural robustness.
- Improved form processing speed by 30% and further enhanced the codebase by implementing advanced React features like memoization, which effectively minimized unnecessary component re-renders and optimized application performance.
- Managed the successful migration of a React Native application to the Expo platform, which streamlined the app publishing process and markedly improved the development workflow and overall code quality.
- Integrated Cisco Meraki IoT sensors (door sensor, water sensor) with user task system, allowing caregivers to track when an individual opens their medication drawer or takes a shower

Junior Full-Stack Software Developer, **Routeique** – Calgary, Canada, 10/2018 - 11/2020
- Facilitated the migration of stored procedures from raw SQL to PHP, significantly reducing development conflicts within the internal supply chain and logistics software.
- Acquired expertise in Object-Relational Mapping (ORM) by assisting in the transition of raw SQL to Eloquent, enhancing data management capabilities in Laravel.
- Developed a robust recurring order system using PHP (Laravel), JavaScript, and MySQL, incorporating the iCal Recurrence Rule specification to enable customizable order repetition.
- Engineered a dynamic form builder leveraging Object-Oriented Programming principles, streamlining data entry and customization processes.
- Transitioned the legacy frontend from jQuery to React, employing best practices to modernize the client interface and improve user interactions.
- Optimized application performance and user experience by implementing advanced JavaScript functionalities, significantly enhancing interactivity and responsiveness.
- Led the technical team in adopting modern security protocols, ensuring robust data protection and compliance with industry standards throughout the application lifecycle.

PROJECTS

Competitor Fox, 09/2022 – 08/2023
- Developed the frontend using React and ChakraUI, significantly enhancing user interface design by mastering advanced React patterns and the ChakraUI framework, while also engineering a robust, scalable backend with NestJS.
- Utilized Puppeteer for sophisticated website scraping and expanded my expertise in managing multiple backend instances through effective horizontal scaling techniques.
- Significantly improved system performance and processing efficiency by implementing dedicated data processing queues, separate from the main backend, and enhanced my Continuous Integration (CI) skills with comprehensive GitHub Actions for building, testing, and linting.
- Advanced my Continuous Deployment (CD) practices, automating deployments to DigitalOcean's container registry using Docker, which streamlined the release process and bolstered deployment reliability.

Spotalytics, 2018
- Constructed the frontend with React and TypeScript, integrating OAuth for API authentication and incorporating Spotify's music recommendation API, enabling extensive retrieval of music data including songs, artists, and albums.
- Explored and implemented a range of charting and graphing libraries in JavaScript to effectively display detailed Spotify statistics to users, enhancing user engagement and visual data interpretation.

Crossroads Parts Software, 2016
- Developed my first web application using HTML, CSS (Bootstrap), and jQuery, integrating DataTables to enhance HTML tables with sorting, filtering, and pagination functionalities, and implemented features allowing simultaneous editing of multiple table rows and cells, which halved the time required for inventory data entry.

TECHNICAL PROFICIENCIES

Web Development:
- **HTML/CSS:** LESS | SCSS/SASS | CSS-in-JS
- **JavaScript/TypeScript:** JavaScript | TypeScript

Backend Technologies:
- **Node.js:** Express | Koa | NestJS
- **Databases:** PostgreSQL | MySQL
- **ORM Tools:** Prisma | Objection | Knex

Frontend Frameworks:
- **React:** Next.js | ChakraUI
- **React Native:** Expo | NativeBase

DevOps & Deployment:
- **Containerization:** Docker
- **CI/CD:** Github Actions | Gitlab Pipelines | Kubernetes | Pulumi

Testing and Collaboration Tools:
- **Unit Testing:** Jest | Mocha/Chai
- **Project Management:** Jira (Standardized workflows, Automation)

EDUCATION

Object-Oriented Software Development, Southern Alberta Institute of Technology (SAIT), Calgary, Canada, 03/2018 - 10/2018

- Gained proficiency in Object-Oriented Programming (OOP) fundamentals.
- Developed a Windows Forms Application using Visual Studio and C# to gather user data and execute calculations, enhancing data handling skills.
- Designed and implemented an Android application using Java and the Spring framework, featuring a user authentication system and a dynamic homepage displaying flight information for a conceptual airline company.