**ROBERT BALCH II**

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**SUMMARY:**

Analytical software developer with growing expertise in web development. Proficient in HTML, CSS, JavaScript, and PHP. Experienced in building full-stack web applications using React, Node.js, and PostgreSQL. Demonstrated ability to develop responsive and user-friendly interfaces. Seeking to leverage technical skills in e-commerce development and contribute to innovative web solutions.

**SKILLS:**

*Programming Languages:*

* HTML5, CSS, JavaScript/ECMAScript, TypeScript, Python3, PostgreSQL, Bash, Zsh, RegEx

*Frameworks/Libraries:*

* Express.js, Vite.js, Redux, React.js, Bootstrap, React-Bootstrap, Adonis.js, Next.js, Tailwind CSS, BigQuery

*Networking Technologies*:

* TCP/IP, UDP/P, HTTPS, IPv4/IPv6, Zerotier, VPN, RustDesk, Microsoft Teams, Google Workspaces

*Version Control Systems:*

* Git and GitHub

*Database Management/ Analysis Tools:*

* PostgreSQL, MySQL, Supabase, Redis, Matplotlib, Pandas , Numpy, Excel

*Operating Systems:*

* WSL2, Windows 10&11, Linux,Fedora, Pop OS, Ubuntu, Arch, Manjaro, , Alpine Linux, OSX, VM Boxes, VM War, Virtual Box.

*Development Tools:*

* VSCode, WebStorm, Node.js, PGAdmin 4, Docker, Insomnia, Balsamiq, Canva, Inkscape, Figma, Google Colab, Jupyter Notebook

**PROJECTS:**

*THE PRRC-INVENTORY APPLICATION (NEW MEXICO TECHNICAL INSTITUTE)*

* Developed a web app using Next.js and Adonis.js for managing lab equipment, improving inventory efficiency with a 15-table database schema and Docker for process security.

*THE SEISCOMP SEISMIC DATABASE PROJECT (NEW MEXICO TECHNICAL INSTITUTE)*

* Converted MiniSeed data to Seiscomp format using Python/Bash, resolving compatibility issues and enhancing data accessibility.

*THE MARTINI APP (DRY ICE LLC)*

* Created a CRM system with Next.js and Supabase, improving data visualization and user experience through modular forms and React Context.

*THE MARTINI APP INTERNAL CRM*

* Created a CRM system with Next.js and Supabase, improving data visualization and user experience through modular forms and React Context.

*UNM APP CONTEST*

* Prototyped a website concept in Figma, showcasing creative problem-solving and design skills.

*DEEP DIVE CODING BOOTCAMP*

* Contributed to a full-stack web application, focusing on backend logic and database interactions.

*GLOOMSMITH AI QUOTE GENERATOR*

* Developed Express.js middleware for a website generating de-motivational quotes using OpenAI and Unsplash APIs.

**WORK EXPERIENCE:**

*PRRC (PETROLEUM RESEARCH AND RECOVERY CENTER) - NMT (March 2024 - June 2024)*

* Enhanced data conversion processes and developed a CRUD app for inventory management.

*DRY ICE LLC., ALBUQUERQUE, NM (September 2023 - December 2023)*

* Led web development in Next.js and Adonis.js, creating a comprehensive CRM system.

*- Martini-Internal-CRM website:*

* Next.js JavaScript/TypeScript/PostgreSQL
* Built all original features of the app including forms, context hooks, API modifications, and UI designs

**EDUCATION:**

*DEEP DIVE CODING - CNM INGENUITY, ALBUQUERQUE, NM (April 2023 - June 2023)*

* Certificate in Fullstack Development. Focused on routing middleware and TypeScript/PostgreSQL integration.

*SANTA FE UNIVERSITY OF ART AND DESIGN, SANTA FE, NM (August 2012 - December 2016)*

* BFA in Contemporary Music.

**IN PROGRESS:**

*DEEP DIVE CODING - CNM Ingenuity (September 2024 - December 2024)*

* Data Science cohort focusing on Python for statistical analysis and sensor data projects.