Henry Arlt

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SKILLS

- Languages: JavaScript, TypeScript, Python, PHP, COBOL, SQL, HTML, CSS
- Frameworks & Libraries: React.js, React Native, Expo, Express.js, Node.js, IBM Carbon, Sass
- Tools & Platforms: MongoDB, Docker, Git, Postman, Jira, Supabase, Figma, Linux Bash
- Specialties: Full Stack Development, Mobile Development, REST APIs, Agile, TDD, CI/CD

WORK EXPERIENCE

TableTrac: *Web Developer*   Jul 2024 – Current

- Spearheaded the development of a cross-platform mobile app using **React Native** to automate progressive jackpot tracking in casinos, replacing 1–5 minutes of handwritten data entry per slot machine with a photo-based workflow completed in seconds.
- Eliminated the need for Excel transcription and enabled real-time financial reporting by capturing and storing data automatically.
- Integrated OCR using **Apple Vision Framework** and **ML Kit** to extract jackpot values from slot machine images, reducing human error and improving accuracy.
- Designed and implemented seamless **database integration** to store tracked jackpots and support automated financial report generation.
- Built and maintained user-friendly web interfaces using **React.js**, improving usability and simplifying report workflows for casino staff.
- Developed barcode-scanning **Android** apps for streamlining drop box tracking, improving operational efficiency by 80%.

IBM: *Full Stack Developer Intern*   May 2023 – Aug 2023

- Integrated **REST API** endpoints into the IBM SalesCloud API to include filter usage metrics for prospecting list creation using **Node.js** and **MongoDB**.
- Ensured seamless integration with existing codebase through unit testing with **Jest.**
- Developed interactive dashboard to visualize prospecting metrics and usage for IBM sellers using **React.js** and **IBM Carbon** design principles.
- Participated in **Agile** methodologies including daily standups and story point estimation and sprint planning using **Jira**.
- Introduced foundational groundwork for future automation of prospecting lists using machine learning.

PROJECTS

gitGains: *Gym workout tracking mobile application.*

- Conceptualized and developed a full stack mobile application where users can create accounts, create workout packages, add exercises to each package, and track progress through an interactive analytics page.
- Engineered a **REST API** using **Node.js**, **Express.js**, and **MongoDB** with **Mongoose**, to efficiently handle thousands of data entries.
- Designed a user interface model using **Figma** and built a responsive cross platform application interface using **React Native**.

Application Tracker: *Job application tracking web application.*

- Built a full stack web application where users can track job application statuses.
- Constructed a responsive multi-page user interface frontend using **React.js** and **Sass.**
- Architected **REST API** using **Node.js**, **Express.js**, and **MongoDB** to efficiently handle data entries.
- Ensured user data privacy by **encrypting** user passwords in the **MongoDB** collection.

EDUCATION

University of St. Thomas || St. Paul, MN   2020-2024
Bachelor of Science in Computer Science

> **Relevant Coursework**: Artificial Intelligence, Database Design I, Algorithms, Data Structures, Information Security, Computer Architectures, Web Development, Creative Coding, Digital Design, Circuit Analysis, Microprocessor Architectures, Engineering Design