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# Skills

#### Frontend: Backend:

React React-Router Node.js Express.js

React-Redux Next.js MongoDB

TypeScript MaterialUI Ant Design Tailwind

#### **Dev Tools:** Languages:

JavaScript Python Git Puppeteer Jest

HTML/CSS C++ Assembly Postman

# **Projects**

## **Real Estate Report Extraction**

Commissioned to automate the data extraction process from real estate reports, converting hours long manual operations into an instant task within 25 hours of development time

- Using Node.js, meticulously extracted data from PDFs using pixel positioning and referenced text data, leading to a reliable aggregation of real estate data
- Following data extraction, refined and standardized the data format for user-friendly interpretation, converting into a universally accessible CSV format
- Collaborated closely with contractors to innovate unique solutions for handling scenarios involving missing and outdated data
- Designed with scalability and versatility in mind, allowing future avenues for data aggregation of multiple real estate reports across different markets

## **Jobs Data Web Scraper**

- · Led a web automation project for a multi-million dollar real estate firm to gather job postings across Greater Vancouver.
- Limited by available APIs, developed custom scraping scripts to extract and categorize postings by industry, salary, and
- Optimized scraping algorithms by analyzing job board data retrieval methods, reducing runtime by 50% from 1.5 hours to 45 minutes by eliminating unnecessary page navigations
- Implemented a modular code structure to facilitate easy expansion for future use cases, ensuring scalability for different locations or job criteria with minimal development
- Coordinated with project stakeholders, incorporating continuous improvements to refine project requirements and enhance overall effectiveness for organizational objectives

### Data Dashboard/Media Hub

- Solely developed a full-stack MERN (MongoDB, Express.js, React, Node.js) B2B application.
- Embraced a mobile-first perspective, ensuring visual responsiveness to all devices.
- Utilized Redux and followed Atomic Design for efficient state management and component/file organization
- Employed React Router for seamless page management and private route handling
- Designed RESTful APIs protected with JWT Tokens for utmost security, tested thoroughly using Postman
- Translated client Figma designs into pixel-perfect, visually stunning front-end visuals.
- Ensured an exceptional user experience through rigorous error handling and usage feedback.

# **Experience**

### Freelance Developer [December 2023 - Present | ♥ Remote]

- Specialized in freelance development projects focusing on data extraction, compilation, visualization, and web scraping solutions
- · Collaborated with clients to understand project requirements and deliver tailored solutions within agreed timelines, leveraging effective communication and project management skills.
- Successfully automated the data extraction process from real estate reports and the manual recording of job postings data, effectively reducing manual workload and improving efficiency
- Implemented innovative solutions for handling missing and outdated data, demonstrating problem-solving skills and adaptability
- Worked closely with project stakeholders to refine requirements and ensure alignment with organizational objectives

### Dozr [ Developer | May - September 2021 | ♥ Kitchener, Canada ]

- Solely accomplished overhaul of the Node.js backend and EJS email infrastructure, connecting central backend and email generation microservices. Resulting in consolidation of follow-up emails for purchases across all Front-end platforms, accelerated completion to under 1 month for shareholder presentation.
- Took ownership of re-implementing user purchase tracking by creating backend connected order summary pages, accomplishing a production ready Front-End within 2
- Implemented user analytics through tools such as Google Analytics and Bing Ad Conversion, providing granular insights into user interactions and guiding improvements in customer engagement and website functionality.

#### BenQ [Developer | May - August 2019 & January - April 2020 | 9 Taipei, Taiwan]

- Increased Quality Assurance velocity by developing a Chrome extension to optimize error reporting from Mantis bug tracking. Included features such as screenshot integration and automated error categorization, the solution achieved a 10% reduction in daily time spent per employee, equivalent to saving 48 minutes per day.
- Prototyped stream broadcasting systems using experimental technologies (WebRTC, Socket.io, etc.) to test the feasibility of content broadcasting products for its current line of televisions. Completed the proof of concept within 1 month for presentation to multiple Product Team Leads

## Newtopia [ Developer | September - December 2018 | ♥ Toronto, Canada ]

- Achieved improved error handling and user engagement by designing, creating, and implementing a Redux-based log for developer observation
- Increased efficiency and compatibility of the mobile app's endpoint by refactoring it and adding JSDoc documentation to all code written
- Enhanced code coverage from 80% to 90% of the entire code base by writing nearly 100 unit tests using Jest.
- Implemented comprehensive accessibility enhancements across 20 web pages to ensure WCAG compliance and optimal user navigation.
- Conducted meticulous testing with NVDA and JAWS screen readers, tracked and managed live issues in an Excel sheet for team resolution, and efficiently completed the project, including contractor feedback, within 3 weeks.
- Routinely fixed critical bugs, including forking third-party open source dependencies and editing/contributing to their code

# Education

### University of Waterloo | Mechatronics Honours | Bachelors of Engineering

SYDE 522: Foundations of Artificial

SYDE 548: User Centered Design Methods

Intelligience

SYDE 543: Cognitive Ergonomics MTE 262: Microprocessors and Digital

ECE 484: Digital Control Applications MTE 140: Data Structures and Algorithms

MTE 325: Microprocessor Systems and Interfacing for Mechatronics Engineering GENE 121: Digital Computation

### Meta Marketing Analytics Professional Certificate Course

Introduction to Data Analytics Data Analytics Methods for Marketing Marketing Analytics with Meta Statistics for Marketing

Data Analysis with Spreadsheets and SQL Marketing Analytics Foundation Python Data Analytics