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RYAN ADRIAANS

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Aspiring software engineer with a strong engineering background and a demonstrated ability to leverage data-driven insights for informed decision-making. Proficient in applying advanced statistical techniques, data visualization tools, and programming languages to analyze intricate datasets and drive innovative software solutions.

Stack and Professional Synopsis

Programming & Sheet Styling Languages:	Python, JavaScript, TypeScript, HTML, Java, PHP, C++/C#, CSS, SCSS, SASS
Front-end Frameworks & Libraries:	React, React Native, Redux, Angular, Vue, JQuery, Fetch, PyQt
Back-end Frameworks & Libraries:	ASP.Net, Express, Spring Boot, Passport.js, Flask, Flask-Login, Django
Databases/ORM/Clouds:	PostgreSQL, SQLite, MySQL, Oracle, Google Cloud, AWS, Azure
Data Analysis & Visualization:	NumPy, Seaborn, SQLAlchemy, Pandas, Connexion, GraphQL, GraphJS, MATLAB, Tableau
Other Tools and Platforms:	Power BI, Abaqus, AutoCAD, Solidworks
Concepts:	DialogFlow, Maven, Docker, Git, Jira, Bash, PowerShell, Microsoft Office, Primavera, TD/IBKR Mocha, Chai
	TDD, Agile, Scrum, OOD, ETL, Password hashing, Sanitization, MVC, Data Structures, Algos

Projects

- Project 1: Interactive Resume (SPA) – Vue.js, TypeScript, C#, ASP.Net, DialogFlow, Docker, HTML, SCSS** [Live Site](#) | [GitHub](#)
- Dynamic Professional Portfolio: The Interactive Resume Avatar showcases work experiences and qualifications through a conversational avatar, employing Dialogflow for NLP and Vue.js for the frontend.
 - Engaging Resume Experience: It features an avatar that interacts via animations, providing detailed information from the user's resume and career history.
- Project 2: Mermagick (Static HTML) – JavaScript, Node.js, Express.js, PostgreSQL, Passport.js, HTML, SCSS** [Live Site](#) | [GitHub](#)
- Mermagick commerce - Mermagick offers a specialized shopping experience for health products with a user-friendly static HTML front end and a powerful Express.js backend.
 - Efficient & Secure Shopping: Features include secure user registration with Passport.js, a diverse service selection, and a streamlined shopping cart with multiple payment options.
 - Responsive & User-Centric: The platform boasts responsive design across devices, fast load times, and personalized user profiles for order tracking and tailored recommendations.
 - SEO & Accessibility: Mermagick Commerce is optimized for search engines, promoting high visibility, and prioritizes accessibility for an inclusive user experience.
- Project 3: YourCarbonFootprint (SPA) – Angular, JavaScript, Java, Spring Boot, Maven, OracleDB, Docker, HTML, SCSS** [Live Site](#) | [GitHub](#)
- Environmental Impact Platform: YourCarbonFootprint is a dedicated web app for calculating and sharing individual carbon footprints, encouraging environmental responsibility with an Angular frontend and a Java-based backend.
 - Sustainability Tools & Community: It offers a detailed carbon calculator, personalized green tips, and community features to share and learn from others' eco-friendly practices.
 - Recognition & Interaction: Users can highlight their environmental efforts, engage with community progress, and enjoy a gamified experience with monthly showcases of the best sustainability achievements.
- Project 4: Great Lakes Pizza Portal (SPA) – React, JavaScript, Python, Flask, MySQL, Redux, Flask-Login, HTML, CSS** [Live Site](#) | [GitHub](#)
- Pizza Ordering Platform: GreatLakesPizza offers an immersive SPA for customizing and ordering pizzas with ease.
 - Enhanced User Experience: It features interactive pizza customization, secure profiles, and device-friendly responsiveness.
 - Streamlined & Safe: The application provides quick, responsive interactions with robust security and efficient checkout for an enjoyable user journey.

For a full list of projects please see my GitHub.

Education

Bachelor's Degree (Honours) in Mechanical Engineering
Laurentian University, Sudbury, Ontario - April 2019

Full-Stack Developer Certification
CodeCademy - November 2nd, 2023

SQL Certification
DataCamp - May 12, 2023

Python Programmer Certification
DataCamp - April 12, 2023

Self Employed – Day Trader, Web Developer*September 2021 to present*

- Conduct in-depth research and analysis of public corporations' financial growth and assess investment opportunities and risks using investment publications, quarterly earnings reports, and trading platform data.
- Execute stock purchases and liquidations proficiently using online trading platforms.
- Implement effective trading strategies, including risk management and understanding the influence of economic factors on the market.
- Maintain meticulous records and track performance to identify areas for improvement.
- Utilize sector analysis, pre-market data, and early morning research to predict market direction and intraday volatility.
- Regularly update a confidential list of companies for intraday trading by scanning relevant news articles and technical indicators.
- Develop JavaScript code to automate trade executions based on predetermined criteria and real-time market conditions.
- Create different websites to facilitate connections between clients and prospective business owners, serving as a dynamic middleman in the online business landscape.
- Optimize websites for search engines, ensuring increased traffic flow and enhanced visibility in the digital realm.

Anmar Mechanical, Sudbury - QA/QC, Mechanical Estimator, Project Scheduler*February 2019 to September 2021*Mechanical Estimation, Scheduling

- Conducted thorough reviews of bid packages, identifying the necessary elements for precise fiscal estimations.
- Developed Excel estimate sheets with exceptional accuracy to efficiently estimate and finalize tender packages within designated timeframes.
- Proactively communicated with diverse vendors to obtain competitive prices and detailed specifications.
- Performed on-site visits to gain clear insight into project scope and potential issues that might arise during project execution.
- Diligently reviewed engineering drawings, client specifications, and CSA/ASME codes to identify essential QA/QC requirements and any associated hidden costs.
- Crafted comprehensive work plans, safety plans, and work schedules to ensure smooth project execution.
- Issued requests for information to address any identified questions promptly and effectively.
- Actively participated in daily progress and weekly contract progress meetings to keep stakeholders informed of project developments.
- Collaborated with senior management, third-party contractors, and clients to accurately reflect all progress and potential delays in the project's current schedule.
- Developed and meticulously maintained daily reports and progress reports for the client's comprehensive understanding of project status.

Quality Assurance/Quality Control

- Assumed the role of on-site quality control lead for the day shift, overseeing project adherence to high standards.
- Conducted comprehensive reviews of project scope, schedule, engineering drawings, client specifications, and CSA/ASME codes to identify specific QA/QC requirements.
- Orchestrated purchase orders and diligently verified received materials for accuracy.
- Prepared and compiled essential documents for clients, the company, and relevant governing bodies, ensuring compliance with all necessary regulations.
- Conducted visits to the site to clarify project scope and address any emerging issues during construction.
- Created and meticulously validated pipe drawings, both from provided sources and those manufactured in-house.
- Issued crucial PCR's and RFI's when necessary to facilitate project progress.
- Expertly conducted pressure testing on various pipelines, strictly following ASME B31.1 and 31.3 guidelines.
- Developed and managed comprehensive construction Inspection and Test Plans (ITPs) that included NDT requirements and registrations with regulatory authorities for mechanical work.
- Facilitated completion walks with clients to ensure satisfaction with the project's scope.
- Maintained open communication with clients' designated contacts, discussing all prepared project documentation in detail.
- Skilfully performed contract closeout procedures in collaboration with senior management and clients.
- Documented and archived all valuable lessons learned for the company's reference and continual improvement.