



# 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.

If you would like a more personalized experience of my resume, feel free to use my [interactive resume](#).

## Skills

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

## Projects

### Auto Stock Trader (Desktop App) – Python, PyQt, Backtrader, Connexion, Seaborn

- Execute IBKR API calls to purchase/sell stock when predetermined conditions are signalled via the Marketstack API.
- Simple PyQt GUI/Seaborn interface to monitor real time history, performance, conditions, and overall system status.
- Backtrader implementation to run theoretical strategies against historical data.

### Interactive Resume (SPA) – Vue.js, TypeScript, C#, ASP.Net, DialogFlow, Docker, HTML, SCSS

[Live Site](#) | [GitHub](#)

- Showcases work experiences and qualifications, employing Dialogflow for NLP and Vue.js for the frontend.
- Features an avatar that interacts via animations, providing detailed information from the user's resume and career history.

### Mermagickal (Dynamic HTML) – JavaScript, Node.js, Express.js, PostgreSQL, HTML, SCSS

[Live Site](#) | [GitHub](#)

- Offers a specialized shopping experience for health products with static HTML front end and Express.js backend.
- Features include secure user registration, a diverse service selection, and a streamlined shopping cart.
- Boasts responsive design across devices, fast load times, and personalized user profiles for order tracking and tailored recommendations.
- Optimized for search engines, promoting high visibility, and prioritizes accessibility for an inclusive user experience.

### YourCarbonFootprint (SPA) – Angular, JavaScript, Java, Spring Boot, Maven, OracleDB, Docker, HTML, SCSS

[Live Site](#) | [GitHub](#)

- A dedicated web app for calculating and sharing individual carbon footprints, encouraging environmental responsibility with an Angular frontend and Java backend.
- Offers a detailed carbon calculator, personalized green tips, and community features to share and learn from others' eco-friendly practices.
- Users can highlight their environmental efforts, and enjoy a gamified experience with monthly showcases of the best sustainability achievements.

### Great Lakes Pizza Portal (SPA) – React, JavaScript, Python, Flask, MySQL, Redux, Flask-Login, HTML, CSS

[Live Site](#) | [GitHub](#)

- An immersive SPA for customizing and ordering pizzas with ease.
- Features interactive pizza customization, secure profiles, and device-friendly responsiveness.
- Provides quick, responsive interactions with robust security and efficient checkout for an enjoyable user experience.

For a full list of projects please see my GitHub.

## Education

- **Bachelor's Degree (Honours) in Mechanical Engineering**, Laurentian University - April 2019
- **Full-Stack Developer Certification**, CodeCademy - November 2<sup>nd</sup>, 2023
- **SQL Certification**, DataCamp - May 12, 2023
- **Python Programmer Certification**, DataCamp - April 12, 2023

## Work Experience

### Self Employed – Financial Specialist, Web Developer

September 2021 to present

#### Financial Specialist

- 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 Python code to automate trade executions based on predetermined criteria and real-time market conditions.

#### Web Developer

- Design visually appealing and user-friendly websites and applications using various languages.
- Collaborate closely with clients to understand their business requirements and design custom solutions tailored to their needs and brand identity.
- Implement responsive web design principles to ensure seamless user experience across desktop, tablet, and mobile platforms.
- Integrate interactive features and user interfaces to enhance engagement and improve user retention.
- Provide ongoing maintenance and support for websites, including troubleshooting technical issues and implementing updates or enhancements as needed.
- Optimize websites for search engines, ensuring increased traffic flow and enhanced visibility in the digital realm.
- Offer consultancy services to clients on digital marketing strategies, including search engine optimization (SEO), content marketing, and social media integration, to maximize online visibility and drive traffic to their websites.

### 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.