



Ryan Adriaans

705-662-0312 | ryan.1996s@hotmail.com | [Portfolio](#) | [GitHub](#) | [LinkedIn](#) | Sudbury, ON

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

Programming Lang. & Sheet Styling:	Python, JavaScript, TypeScript, HTML, Java, 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
Data Analysis & Visualization:	NumPy, Seaborn, SQLAlchemy, Pandas, Connexion, GraphQL, GraphJS, MATLAB, Tableau
Tools, Platforms & Concepts:	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) – GUI to execute API calls to trade stock when conditions are met

- Wrote a desktop application using Python and PyQt for the GUI.
- Integrated Backtrader for backtesting strategies against historical data.
- Executes IBKR API calls when predetermined conditions are signalled via Marketstack API.
- Developed logic to handle real-time data monitoring and visualization using Seaborn.
- Python, PyQt, Backtrader, Connexion, Seaborn

Interactive Resume (SPA) – Showcases work experience and qualifications via interactive avatar

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

- Leveraged Vue.js and TypeScript for building the frontend interface.
- Integrated DialogFlow for natural language processing (NLP) capabilities.
- Utilized ASP.Net and C# for server-side logic and backend development.
- Containerized the application using Docker for easy deployment and scalability.
- Vue.js, TypeScript, C#, ASP.Net, DialogFlow, Docker, HTML, SCSS

Mermagickal (Dynamic HTML) – Specialized shopping experience for health products & services

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

- Designed and optimized the frontend using HTML and JavaScript for responsiveness and load time.
- Developed the backend using Node.js and Express.js, with PostgreSQL as the database.
- Implemented user authentication, personalized profiles, secure registration and a cart system.
- Utilized Express.js middleware for handling request validation and session management.
- JavaScript, Node.js, Express.js, PostgreSQL, HTML, SCSS

YourCarbonFootprint (SPA) – Calculate, share carbon footprints and receive personalized green tips

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

- Developed the frontend using Angular framework for building a responsive user interface.
- Utilized Java and Spring Boot for implementing the backend logic and RESTful API endpoints.
- Maven for project management, dependency resolution and Docker for containerization.
- Leveraged OracleDB for storing and managing user data and carbon footprint calculations.
- Angular, JavaScript, Java, Spring Boot, Maven, OracleDB, Docker, HTML, SCSS

Great Lakes Pizza Portal (SPA) - Customize and order pizzas with ease

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

- Developed frontend components using React and JavaScript for interactive pizza customization.
- Implemented backend logic using Python and Flask framework, with MySQL as the database.
- Utilized Redux for state management and Flask-Login for user authentication.
- React, JavaScript, Python, Flask, MySQL, Redux, Flask-Login, HTML, CSS

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 2nd, 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.