Eric van de Lande |Software Developer

519-635-3681 | *eric.vandelande@gmail.com* | Website: ericvan14.github.io

Summary of Qualifications

- Recent graduate from the University of Ottawa with a Bachelor of Science, Major in Computer Science
- Five months' professional experience in designing, developing, testing, and troubleshooting software applications
- Proficient in multiple programming languages and frameworks, including Agile and Scrum experience
- Demonstrated problem-solving abilities through academic projects and collaborative team environments
- Research and analytical skills developed by working on group projects throughout bachelor's degree

Education

University of Ottawa   Ottawa, ON
Bachelor of Science, Major in Computer Science   *June 2024*
- · Relevant Coursework: Data Structures, Software Architecture, Web Development, AI and ML, Networking
- · Extracurriculars: UO Men's Soccer Team, Intramural Soccer Referee

University of Ottawa   Ottawa, ON
Bachelor of Engineering, Major in Chemical Engineering (to Year 3A)   *January 2021*
- · Admission scholarship

Experience

SaskPower   Apr 2023 – Sept 2023
Software Developer (Mobility team)   *Regina SK*
- · Analyzed, designed and developed applications using the latest technologies (Angular, React, JavaScript, Typescript, Ionic, Node.js, Electron, HTML, CSS, JSON)
- · Application UI design, JSON data modelling, Bug fixing and problem solving
- · Collaborative development using Git and Azure DevOps
- · Involved in weekly scrums and commonly dealt with many other departments to design useful updates to various SaskPower Apps

Projects

FPLhelper: Predicting Fantasy Points with ML (Current Project)
- · This app is called FPLhelper, FPL stands for Fantasy Premier League. Users can sign in using their manager id from Fantasy Premier league, view their teams and view different insights on which transfers they should make.
- · Developed an XGBoost machine learning model to predict fantasy points based on historical performance data
- · Includes an API that grabs hundreds of different stats for players, game histories and rankings.
- · Created using JavaScript, python, HTML, CSS, Next.js, Node.js, React Native and Expo

Tor Traffic Detection with ML (Honors Project)
- · Developed and Implemented a Machine Learning based tool designed to identify Tor traffic within web access logs
- · The resulting web application identifies Tor traffic with a consistent 97% accuracy rate.
- · Created using python, JavaScript, HTML, CSS and Wireshark

Global Temperatures and Emissions Data Mart Study
- The project used feature selection techniques to identify the variables most predictive of yearly temperature change
- Uses the relational database management system and SQL for querying and management
- Data warehousing structure and design uses star schema for simplicity and performance

E-Hotels Web Application
- This app allows users to book hotels and has an admin interface to manage bookings and view hotel information
- The project involved creating a relational database schema and developing a frontend to interact with the database, ensuring robust data management and user-friendly interactions
- Created using JavaScript, HTML, CSS, PostgreSQL, Express, React, Node.js and tested using Postman

Course Booking Application
- Created using Android Studio, this app allows different user types to login and enroll in/assign themselves as a student or professor to different university classes
- The app also allows users to plan out schedules and provides an admin interface for managing user accounts and courses

Relevant Skills

Programming Languages: Java, Python, JavaScript, C++, Go, Typescript, SQL
Web Technologies: HTML, CSS, Node.js, Angular, Next.js, Spring Boot, React, React Native, Express
Software Development: Object-Oriented Programming (OOP), Agile/Scrum methodologies, Version Control (Git)
Databases: MySQL, PostgreSQL
Tools: Visual Studio Code, JIRA, Eclipse, JavaScript, Android Studio, Wireshark, GitHub, Azure DevOps, Postman
Operating Systems: Windows, macOS, Linux
Others: Machine learning algorithms, Continuous Integration/Continuous Deployment (CI/CD)

Other Experience

Warehouse Associate
2019 - 2022

Metal Pros, LCBO   *Ottawa ON*
- Metal Pros is a small metal company that ships metal Canada wide to many large buyers, such as Canadian Nuclear
- I spent time working as 1 of only 4 employees in a fast-paced environment and learned important problem-solving, teamwork, and efficiency skills
- At the LCBO I learned to work independently as a warehouse worker, as well as be vigilant of safety and the importance of procedural practices

Soccer Referee
2014 - 2024

University of Ottawa, Waterloo Minor Soccer, Kitchener Soccer Club   *Waterloo ON, Kitchener ON, Ottawa ON*
- I refereed throughout university, high school and even before then officiating small sided games and competitive games both as the head ref and the linesman for my local soccer clubs and then at uOttawa Intramurals

Interests

Frontend Development: The most enjoyable part of coding for me, I enjoy crafting intuitive and visually appealing user interfaces, bringing designs to life with modern frameworks like React and Next.js.
Artificial Intelligence and Machine Learning: I'm interest in using AI/ML for anything from predictive analytics to data-driven decision-making. My Honors Project and FPLhelper projects were both inspired by new ways to leverage AI/ML to solve complex problems.