

## SUMMARY

In my last semester of the software development program, with 2+ years' experience as a Data Analyst and Research Assistant in transportation, automotive and tech industry, with hands-on skills in software development. Passionate about solving challenging problems and contribute to innovative solutions in the team.

## PROFESSIONAL EXPERIENCE

### Data Analyst (co-op) – Procor Limited, Oakville, ON

February 2024 – May 2024

- Designed and implemented a production-ready solution for automating PDF conversion into fillable forms while keeping all database objects up to date, utilizing Object-Oriented Programming and JavaScript.
- Analyzed, troubleshooted, tested, and automated electronic document workflows, converting over 100 PDF documents and optimizing user interactivity by enabling dynamic database dependencies and transferring data mapping fields to Adobe form methods with data sent to the database.

### Autonomous Driving Research Assistant (Intern) – McMaster Automotive Resource Centre, Hamilton, ON

May 2023 – December 2023

- Developed and implemented a solution for data cleaning and wrangling of vehicle GPS data, for speed and trajectory prediction. Utilized MongoDB, Python, and Google My Maps for this purpose.
- Successfully cleaned and annotated the vehicle GPS location and camera data, to be used in LSTM and RNN machine learning models for pedestrian safety.
- Demonstrated strong communication and teamwork skills while able to work autonomously within a research team of five.

### Web Designer/Developer (Freelance, Part-time) - Hamilton, ON

May 2022 – Present

- Designed and developed front-end for over 25 websites using WordPress (including DIVI), Shopify, and Wix, creating logos, icons, and custom backgrounds with Adobe Photoshop.
- Continued working on Shopify and WordPress projects beyond the initial freelance period.

## TECHNICAL SKILLS

- Programming languages:** MySQL, PHP, React.js, JavaScript, C#, Java, RESTful APIs, Software testing (C#, Katalon Recorder), Git, Python (Pandas, NumPy, PyTorch, Matplotlib, Pdfminer, PyPDF2, Scikit-learn)
- Tools:** Jira Service Management, VS Code, Visual Studio, Google Colab, SSMS, GitHub, SharePoint, Unity
- Skills:** OOP, SDLC, Object Oriented Design, Database Normalization, Use case and System design, Graphical User Interface, Software quality, Unit testing

## EDUCATION AND CERTIFICATION

### Computer Software Development – Mohawk College, Hamilton, ON

September 2022 – December 2024

- Completed courses:  
Database Theory SQL | Programming in Java | Client-Side Web Programming | Object Oriented Systems | HTML & CSS | Programming Fundamentals Python | Programming in .NET | Server-Side Web Programming | Software Quality & Testing |

### LinkedIn Learning

- Python Data Structures and Algorithms | React.js Essential Training | Introduction to Deep Learning with OpenCV | Data Visualization for Data Analysis and Analytics

## PROJECTS

### AI Assistant Connected to Gemini

Summer 2024

- Developed a conversational AI web form using Google Gemini API, enabling natural language interaction for generating responses based on user input. Utilized HTML, CSS and JavaScript.

### Toronto KSI collision data analysis

Winter 2024

- Data cleaning/wrangling of traffic collision data (KSI) for the city of Toronto spanning from 2006 to 2022. Task included removing redundant columns, filling in missing data, and reformatting, while ensuring dataset accuracy and reliability through the implementation of optimized SQL queries.
- Performed exploratory data analysis (EDA) utilizing the Python Matplotlib library to investigate accident counts, causes, situations, and locations.

### Soccer game

Fall 2023

- Designed a Unity soccer game with C# allowing players to control a goal using keyboard inputs. Implemented ball creation, movement, and collision mechanics for dynamic gameplay.
- Integrated win and lose conditions with animations and sound effects upon scoring 18 goals or running out of time, ensuring a streamlined user experience.

### Java Drawing App

Fall 2023

- Implemented a Java drawing app, showcasing ArrayLists, and mouse listeners. Employed OOP principles with inheritance and encapsulation for shape classes, enabling parameter configuration and drawing on a canvas.
- Enhanced user experience by implementing robust error handling, ensuring seamless interaction with informative error messages and preventing exceptions during shape creation and drawing.

### Amazon stock forecasting

Summer 2023

- Implemented a PyTorch LSTM Neural Network model for time series forecasting, utilizing historical stock data from Amazon spanning from 1997 to 2023 for training and testing purposes.
- Trained and evaluated the model to forecast future stock prices, achieving an accuracy of 5%.