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August 4th, 2025

DataVisor
Calgary, AB, Canada
Re: Software Engineer

Dear Hiring Manager,

I bring a large amount of experience in project coordination and agile methodology, I am confident to be a strong addition to any sort of business related application technology.

As a Computer Science graduate from the University of Lethbridge, I bring a strong foundation in software engineering, algorithms, and full-stack development. During my time as a Junior Developer at Wallace & Carey, I contributed to a multi-million-dollar ERP modernization project, where I used C#, .NET, and SQL to build and maintain backend systems. I also developed a front-end JavaScript landing page that streamlined internal ticket submissions, improving user experience and data accuracy. In my current role as a STEM Project Coordinator, I've led the development of an iOS application using SwiftUI and Firebase, which remains in active use by over 1,000 students. Across all projects, I've demonstrated a strong grasp of version control, team collaboration, and building scalable solutions. My passion for problem-solving, eagerness to learn new technologies, and real-world experience across multiple tech stacks position me well to contribute to fast-paced engineering teams.

- **1. Interactive 3D Drone Portfolio (Three.js & Cannon.js)**
  In this project, I built a web-based drone playground from scratch using JavaScript for rendering and Cannon.js for physics. I organized my code into modular ES6 files creating polymorphism, for example drone.js, scene.js, controls.js, etc. This follows the strong engineering practice of the Single Responsibility Principle. I adopted an iterative, agile workflow which followed daily push comments on GitHub about Issues and continuous deployment via Vite and GitHub Pages. This project highlights my fullstack JavaScript proficiency, my ability to integrate simulation physics, and your comfort with modern frontend toolchains.
- **2. Real Time Attendance App (C++, SwiftUI & Firebase)**
  I delivered an Apple OS attendance tracker with SwiftUI on the frontend and Firebase Firestore on the backend, enabling real time synchronization across devices. I structured the app under the MVVM pattern, isolating view logic in ViewModels and data access through repository classes, which simplified unit testing of business logic. I implemented local persistence with local cache memory and a daily cleanup routine, ensuring offline resilience. I built this app for the University and It is still used today, months of working with the director and higher management proving my personable skills and being able to follow development with users that do not program. This project underscores my expertise in user first design, reactive data streams, and maintaining robust real time systems.
- **3. Machine-Learning Classifier Suite (Python, scikit-learn & PCA)**
  I worked on a Classifier model that tackled the Street View House Numbers image set (SVHN) or dataset to build a suite of classifiers, including logistic regression, Naïve Bayes, and a simple neural network, using Python and scikit-learn. I started with data analysis, applying PCA for dimensionality reduction and visualizing variance explained. I encapsulated preprocessing, model training, and evaluation within sklearn Pipelines, ensuring reproducibility. I used the Panda library to build visual charts to display the data and compare which machine learning method is most accurate and fastest at determining the image processing given.

You may reach me at (403) 861-5051 or via email at zosiukluke@gmail.com to arrange an interview time. Thank you for your time to review my application.

Sincerely,
Luke Zosiuk