

# Kyle Hasan

Calgary, Alberta • kylehasan1@gmail.com • 825-994-0871 • <https://kyle-hasan.github.io/>

## Education

**University of Calgary** - Bachelor of Science in Software Engineering

September 2019 - December 2024

- GPA: 3.8.

**Certifications:** AWS Certified Cloud Practitioner

## Skills

**Languages:** C#, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript

**Frameworks/Libraries/Runtime environments:** .NET, Angular, React, Next.js, Expo, React Native, Bootstrap, Spring Boot, Entity Framework, Electron, Flask, Node.js, OpenCV, Pandas, Tailwind CSS, NumPy

**Developer tools:** Docker, Git, Visual Studio Code, Visual Studio, Eclipse

**Databases:** PostgreSQL, Microsoft SQL Server, MongoDB, MySQL, Firebase, Microsoft Access

## Experience

**Software Engineer Intern**, Ripple Group - Calgary, Alberta

May 2022 - September 2023

- **Tech stack:** .NET, Angular, C#, CSS, Entity Framework, HTML, Git, Microsoft SQL Server, TypeScript.
- Developed both backend and frontend components for case management and call helpline web applications used by 20+ nonprofit organizations.
- Streamlined invoicing for clients of a nonprofit organization by adding payment and billing functionality with Stripe integration to the case management system.
- Created a C# program to periodically synchronize data between a Microsoft Access database and a Microsoft SQL Server database, successfully securing a key client by meeting their requirements.
- Implemented browser-based calling for the call helpline application, handling multiple calls per month.
- Developed a new phone call routing system for the call helpline application that reduced response times.

## Projects

**Transit Solutions** | CSS, Electron, Flask, Git, SQL, OpenCV, Python, React, TypeScript

- Collaborated with Calgary Transit on a capstone project aimed at reducing violations in bus-only lanes and crossings by using sensors, cameras, GPS devices, OpenCV, and the YOLOv8 object detection model.
- Engineered a Python-based machine learning solution that automatically sent email notifications with license plate information whenever vehicle infractions were detected.
- Built a user interface using React and Electron to enable efficient data monitoring.
- Created a REST API using Python Flask to enable efficient data management and utilized a SQL database for storage.

**Interview Sensei** | .NET, C#, Entity Framework, Next.js, React, PostgreSQL, Git, Tailwind CSS, TypeScript

- Developed an AI-powered web application to generate tailored interview questions based on user-uploaded resumes and job descriptions, and to provide feedback on recorded answers.
- Designed and implemented a robust backend with .NET and PostgreSQL, enabling efficient data handling and AI integration.
- Built an intuitive interface using Next.js and Tailwind CSS, allowing users to practice, record, and manage interview sessions effectively.

**Appalytics** | Bootstrap, CSS, Flask, Git, MySQL, Python, React, JavaScript

- Built both backend and frontend components for a web application leveraging machine learning to analyze sentiment from Google Play Store feedback across multiple apps.
- Deployed the application to Google Cloud Platform.