

# Kyle Hasan

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## 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, Tailwind CSS

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

**Other technologies:** AWS, Docker, Git

## 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 backend (C#, .NET, SQL) and frontend (Angular, TypeScript) components for case management and call helpline web applications used by 22+ nonprofits, enhancing workflow efficiency and user satisfaction.
- Implemented an online payment and billing system using Stripe, enabling seamless invoicing and payment processing for 100+ counselling clients.
- Developed a custom C# program that periodically synchronized data between Microsoft Access and SQL Server databases, meeting a client's prerequisite for purchasing the company's SaaS solution.
- Added browser-based calling by integrating the frontend with the Twilio API, handling 75+ calls per month.
- Developed a Twilio API-based phone call routing system for the call helpline, reducing response times by 25%.

## Projects

**Transit Solutions** | CSS, Electron, Flask, Git, SQL, OpenCV, Python, React, TypeScript | [More Info](#)

- Collaborated with Calgary Transit on a group capstone project to reduce violations in bus-only lanes and crossings by using sensors, cameras, GPS devices, OpenCV, and the YOLOv8 object detection model.
- Engineered a machine learning model with 91% accuracy to detect vehicle infractions and send email notifications with license plate details, enhancing enforcement efficiency.
- Built a user interface using React and Electron to display violation information, enabling efficient data analysis.
- Created a REST API using Python Flask to enable data management and utilized SQL for database operations.

**Interview Sensei** | .NET, AWS, C#, Docker, Next.js, React, PostgreSQL, Git, Tailwind CSS, TypeScript | [More Info](#)

- Developed an AI-powered web app that creates interview questions based on resumes and job descriptions and provides feedback on recorded answers.
- Designed and implemented a robust REST API backend with .NET and PostgreSQL for efficient data management and AI integration.
- Implemented a Next.js and Tailwind CSS interface to enable seamless resume uploads, AI-generated interview questions, response recording, interview management, and AI feedback review.
- Utilized AWS EC2, S3, and RDS for scalable hosting, storage, and database management, with Docker for containerization.

**Personal Finance Tracker** | React Native, Java, Spring Boot, Expo, PostgreSQL | [More Info](#)

- Developed a mobile application using Expo and React Native to manage personal finances, allowing users to track budgets, accounts, and transactions, with support for recurring transactions.
- Built a secure REST API using Spring Boot to help manage financial data and integrated Spring Security for user authentication and data protection.
- Implemented data visualization, filtering, and sorting to help users analyze financial data efficiently.