

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 both backend and frontend components as a full-stack developer for case management and call helpline web applications used by 22+ nonprofit organizations.
- Implemented an online payment and billing system using Stripe, enabling seamless invoicing and payment processing for 100+ counseling clients.
- Programmed 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.
- 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 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 with 91% accuracy that automatically sent email notifications with license plate information whenever vehicle infractions were detected.
- Built a user interface using React and Electron for streamlined data monitoring.
- Created a REST API using Python Flask to enable efficient data management and utilized a SQL database for storage.

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 enabling 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.