

Kyle Hasan

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Education

University of Calgary - Bachelor of Science in Software Engineering, GPA: 3.75

September 2019 - Present

- Expected graduation date: December 2024.

Certifications: AWS Certified Cloud Practitioner

Skills

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

Frameworks/Libraries/Runtime environments: .NET, Angular, React, React Native, Bootstrap, Spring Boot, Entity Framework, Electron, Express, 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 22+ nonprofit organizations.
- Streamlined invoicing for 500+ 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 1,000+ calls per month.
- Developed a new phone call routing system for the call helpline application, reducing response times by 25%.

Projects

Transit Solutions | CSS, Electron, Flask, Git, MySQL, 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 MySQL database for storage.

Personal Finance Tracker | React Native, Java, Spring Boot, Expo, PostgreSQL

- 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 and integrated Spring Security for user authentication and data protection.

JobPair | CSS, Docker, Firebase, Flask, Git, Python, React, TypeScript

- Contributed to the development of a job search web application that integrated ChatGPT for AI-powered mock interviews and job application support.