

# TUNA UYGUN

☎ (873) 354-6616 ✉ [uyguntuna2018@gmail.com](mailto:uyguntuna2018@gmail.com) 🔗 [linkedin.com/in/tunaugun/](https://www.linkedin.com/in/tunaugun/) 🐙 [github.com/tunaugun](https://github.com/tunaugun) 🌐 [tunaugun.me/](https://tunaugun.me/)

## Education

### Carleton University

Graduation: May 2025

*Bachelor of Engineering — Software Engineering*

*Ottawa, ON*

- Graduated with High Distinction
- Courses: Web Development, Network and Software Security, Computer Communications, Software Validation, Software Architecture & Design, Database Management Systems, Operating Systems, Intro to Real-Time Concurrent Systems, Computer Organization and Architecture, Algorithms and Data Structures, Object-Oriented Software Development

## Work Experience

### Environment and Climate Change Canada

Sep–Dec 2023 & May–Aug 2024

*Web Developer Co-op*

*Gatineau, QC*

- Developed and implemented a **C#** bulk-generation **API** endpoint to generate dozens of PDF reports in one call, reducing manual effort by **80%**
- Upgraded the codebase to **.NET** with dependency injection and asynchronous processing, speeding bulk report generation time by **50%**
- Authored **T-SQL stored procedures** and scripts to archive multi-table reports with full referential integrity
- Analyzed execution plans, restructured operations, and added indexes in **MS SQL Server** to decrease the query response times and eliminate timeouts

### Department of Justice Canada

Apr 2023 – Aug 2023

*IT Developer Co-op*

*Ottawa, ON*

- Implemented new features and bug fixes for a legal case management system using **Microsoft Dynamics 360**
- Performed system testing on developed features and bug fixes and documented their status on **Azure DevOps**
- Collaborated in an **Agile** team, actively participating in daily stand-ups, sprint planning, reviews, and retrospectives, while managing tasks and progress using **Azure DevOps**.

### Transport Canada

May–Sep 2022 & Jan–Mar 2023

*Junior Programmer Analyst Co-op*

*Ottawa, ON*

- Developed **Python** scripts using **Shapely** and **Folium** to generate and visualize 3D Obstacle Limitation Surfaces (OLS) around **320+** airports, aiding aviation inspectors in hazard assessments
- Implemented **ETL (Extract, Transform, and Load)** pipelines on geospatial data for aerodromes using **GeoPandas** in a **Databrick Python** notebook, streamlining data ingestion and transformation workflows
- Developed a web application using **React.js**, **ArcGIS Experience Builder**, and **ArcGIS API for JavaScript** to search, monitor, and track vessel traffic using vessel AIS data

## Projects

### Yet Another Travel Map - YATM | [Website](#) | [Source Code](#)

**ReactJS** | **Spring Boot** | **PostgreSQL**

- Developed and deployed a full-stack web application that enables users to document travel plans on an interactive map
- Utilized **PostgreSQL** for data storage, **Spring Boot** for a **RESTful API** backend, and **ReactJS** for the user interface

### Course Planner - Coplaner | [Website](#) | [Source Code](#)

**SQLite** | **JavaScript** | **Express.js**

- Developed a web application using **JavaScript** and **Express.js** to generate conflict free timetables for **20000+** Carleton University undergraduate students, saving them time during course registration

### Student Exam Grader - Teagrade | [Website](#) | [Source Code](#)

**SQLite** | **JavaScript** | **Express.js**

- Developed a full-stack marketplace application for automatically grading student exams, utilizing **Bootstrap** for the frontend, **OpenCV** for computer vision processing, **MongoDB** for the database, and a **Express.js** backend

### Shared Checklists - Avely | [Source Code](#)

**Android** | **Kotlin** | **Firebase**

- Designed and implemented an **Android application** using **Kotlin** and **Firebase** with knowledge of user authentication, and real-time cloud databases that allow users to collaborate on a checklist

## Technical Skills

**Languages:** Python, Java, C#, SQL, HTML5, CSS, JavaScript, C, Kotlin, TypeScript

**Developer Tools:** Git, Azure DevOps, GitHub, Postman

**Libraries/Frameworks:** Spring Boot, ReactJS, PostgreSQL, MongoDB, Node.js, Express.js, Leaflet, Tailwind CSS