

# Keshav Callychurn

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Bilingual (Fluent in French) || Permanent Resident

## WORK EXPERIENCE

### Software Developer – Co-op

Toronto, ON

#### Ontario Public Service - Ministry of Public and Business Service Delivery

Sept 2025 – April 2026

- Developed and enhanced a full-stack web applications using **C#**, **.NET**, **Razor Pages**, **HTML/CSS**, and **JavaScript**, delivering **5+ production features** used by **3 internal business teams**
- Investigated and resolved front-end and back-end defects by debugging application logic and APIs, improving system stability and reducing recurring issues reported by users
- Implemented **PyTest-based automated tests** for **API endpoints**, increasing test coverage from **~50% to ~80%**, validating request/response behavior and prompt templates used in a **Retrieval-Augmented Generation (RAG)** pipeline
- Built and maintained **CI/CD pipelines in Azure DevOps**, automating build, test, and deployment workflows and reducing deployment time from **1-2 hours to under 15 minutes**

## PROJECTS

### RememberBirthdays [Github-Backend](#) [Github-Frontend](#) [Live Site](#) [Pdf Summary](#) [Video Demo](#)

Full-stack birthday management application with secure authentication and automated email reminders.

**Technologies:** React, TypeScript, Material-UI (MUI), Java 21, Spring Boot 3.5, Keycloak (OAuth2), PostgreSQL, Docker,

- Designed and implemented **RESTful** microservice APIs using **Java 21**, **Spring Boot**, and **Spring Data JPA**, supporting full CRUD operations
- Implemented **OAuth2 authentication** and role-based authorization using **Keycloak** and **Spring Security**
- Built a layered backend architecture (Controller, Service, Repository) to ensure scalability and maintainability
- Integrated **PostgreSQL** for production-grade relational data persistence and query optimization
- Developed **automated email reminder** jobs using the **SendGrid API** and containerized services using **Docker**

### UFC Store [Github](#) [Live Site](#)

Full stack e-commerce store powered by the MERN stack and inspired by the official UFC store website.

**Technologies:** React, HTML, CSS, Javascript, Node.js, MongoDB, Express.js

- Implemented user registration, login, and **JWT-based authentication** for secure access
- Developed product listing and **CRUD** operations, including admin-only management of products
- Built shopping cart functionality with add/remove items and quantity updates
- Integrated **Stripe** payment gateway and demonstrated proficiency with **RESTful API**

## EDUCATION

### Computer Programming Diploma

Seneca Polytechnic GPA: 3.9 / 4.0

Toronto, ON

May 2024 – August 2026

### Bachelor of Business (Accounting and Finance)

La Trobe university

Melbourne, Australia

July 2018 - June 2021

## TECHNICAL SKILLS

- Languages:** Java (Spring Boot), Python, JavaScript, TypeScript, C# (.Net), PHP
- Frontend:** React.js, React Native, HTML, CSS, Material UI
- Backend & APIs:** Spring Boot, Node.js, Express.js, RESTful services, OAuth2
- Databases:** PostgreSQL, MySQL, MongoDB, Oracle SQL, MS SQL
- Cloud & DevOps:** Docker, CI/CD pipelines, Azure DevOps
- Version Control:** Git, Azure Repos
- Software Development Life Cycle (SDLC):** Agile, Waterfall, and Iterative methods
- Operating Systems:** Linux, Windows
- IDE:** Visual Studio, Visual Studio Code

## CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)** – Issued September 2025
- ISTQB (International Software Testing Qualifications Board) Foundation Level** - Issued April 2025