

# Keshav Callychurn

437-669-9875 || Toronto, ON (Willing to relocate) || [keshav0799@gmail.com](mailto:keshav0799@gmail.com) || [LinkedIn](#) || [GitHub](#) || [Portfolio](#)

Bilingual (Fluent in French) || Permanent Resident

## EDUCATION

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### Computer Programming and Analysis Diploma

Toronto, ON

Seneca Polytechnic GPA: 3.9 / 4.0

2026

### Bachelor of Business (Accounting and Finance)

Melbourne, Australia

La Trobe university

2021

## WORK EXPERIENCE

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### 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
- Designed and implemented a **Retrieval-Augmented Generation (RAG)** agent in **Python**, improving the efficiency and accuracy of internal data retrieval for decision-support use cases
- Implemented automated API testing using **Pytest**, increasing test coverage **from ~50% to ~80%** and reducing regression-related **defects by ~25%**
- 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

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### 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 APIs** using **Spring Boot** and **Spring Data JPA** with full CRUD functionality
- Implemented secure **OAuth2 authentication** and role-based authorization using **Keycloak** and **Spring Security**
- Built a **layered backend architecture** (Controller, Service, Repository)
- Integrated **PostgreSQL** for production-grade data persistence and relational data modeling
- Developed automated email reminder jobs using the **SendGrid API** and containerized services with **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**

## TECHNICAL SKILLS

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- Programming Languages:** Java (Spring Boot), Python, JavaScript/TypeScript, C/C++, C#
- Web & Backend Development:** React.js, React Native, Express.js, Node.js, HTML, CSS
- Databases:** MySQL, MongoDB, Oracle SQL, MS SQL
- DevOps:** Docker, CI/CD, Azure DevOps
- Version Control:** GIT, Azure Repos.
- Software Development Life Cycle (SDLC):** Agile, Waterfall, and Iterative methods
- Operating system:** Windows, Linux
- IDE:** Visual Studio, Visual Studio Code

## CERTIFICATIONS

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