

# JUAN DAVID RODRIGUEZ CASTELBLANCO

Software Developer

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## PROFILE

Software Developer with 3+ years of experience building scalable, enterprise applications using C# and .NET Core. Skilled in developing reliable backend services and optimizing database performance. Passionate about creating robust software that functions 24/7 with minimal downtime.

## SKILLS

- Programming Languages: C#, JavaScript, TypeScript, SQL, .NET Core, ASP.NET, React, Redux
- Cloud & Databases: Google Cloud Platform (GCP), Docker, Kubernetes, PostgreSQL, SQL Server
- Tools: Git, CI/CD pipelines, Jira
- Development Practices: Test-Driven Development, Code Reviews, Agile Methodologies

## EXPERIENCE

**Software Developer** at Seneca Polytechnic, Toronto, Ontario

May 2024 – March 2025

- Designed and implemented microservices architecture for a fleet management application that processes over 5 million data points daily, improving system reliability by 30%
- Developed RESTful APIs using C# and ASP.NET Core to integrate with third-party telematics devices
- Optimized SQL queries and database schema, reducing average query time by 40%
- Built containerized applications using Docker and orchestrated with Kubernetes for seamless deployment
- Implemented comprehensive unit and integration tests, achieving 90% code coverage
- Participated in 24/7 on-call rotation to ensure system reliability and quick incident response

**Low-code Application Developer (Co-op)** at Government of Ontario

September 2023 - April 2024

- Designed and deployed a multi-tenant web application using JavaScript and Node.js, improving UX for 1,000+ users
- Managed and resolved 150+ monthly support tickets with a high customer satisfaction rate
- Collaborated with QA teams to identify and resolve critical bugs during system testing cycles
- Optimized SQL queries to troubleshoot database issues, eliminating critical data inconsistencies
- Participated in 3 major software releases, ensuring quality through comprehensive defect tracking

**Technical Support Engineer Volunteer** at Hispanotech, Toronto, Ontario

January 2022 – August 2023

- Mentored 3 junior support engineers in technical troubleshooting, enhancing their problem-solving skills.
- Participated in daily scrum meetings to report testing progress and collaborate with development teams.

## PROJECTS

**Enterprise Microservice Platform**

GitHub: <https://github.com/jdcastel/Microservice-fragments-Cloud-Computing>

- Engineered and deployed a high-performance microservice platform with robust CRUD operations for scalable, secure data management; streamlined deployments via Docker and CI/CD pipelines.
- *Tools: AWS (Cognito, ECR, ECS, S3, DynamoDB), Docker, CI/CD*

**Chronicle App (Social Journal Application)**

Live: <https://chronicle-web-app-eight.vercel.app/>

- Developed a scalable, multi-tenant app delivering seamless state management and enhanced user experience through modern web technologies and rigorous performance testing, integrated intuitive design insights.
- *Tools: MongoDB, Express.js, React, Node.js, Next.js, Redux, TypeScript*

## EDUCATION

**Advanced Diploma in Computer Programming and Analysis**, Seneca Polytechnic, Toronto, Ontario

2021 - 2024

**Honors:** Summer and Fall 2023 semesters | **Relevant Coursework:** Cloud Infrastructure, Database, DevOps Practices.

**B.Eng. in Software Engineering**, Studying Online, Politécnico Grancolombiano, Colombia

Expected 2026

**Certifications:** Platzi Online Technology Education Platform – Advanced Algorithms: Array and String Patterns, REST API with JavaScript, Object-Oriented Programming