

Brandon Carrillo Álvarez

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Education

National University of Costa Rica	Nicoya
Diploma in Computer Application Programming	November 2024
National University of Costa Rica	Nicoya
Bachelor’s Degree in Information Systems Engineering	May 2026

Experience

Organization	Santa Cruz, Guanacaste
Nursing Home	July 2024 – Jun 2025
<ul style="list-style-type: none">Developed reusable React components, reducing UI code duplication by 35% and improving load times by ~20%.Reduced form validation errors by 40% using Zod and consistent schema enforcement.Integrated APIs using Axios and ensured secure communication with JWT.Built and maintained backend services in C# using .NET and the Repository pattern.Applied CQRS principles and Fluent Validation to structure and validate domain logic.Implemented Auto Mapper for efficient object transformation and used DTOs for clean API contracts.Led integration of 3 external APIs, including Google Drive, to automate and simplify file management for admin users.Handled over 60 database tables, applying indexing strategies that improved query performance by up to 50%.Contributed to an administrative management system using agile Scrum methodology with Azure DevOps.Utilized Git and GitHub for version control and collaborative development.Performed system testing and debugging to ensure reliability and scalability.	

Leadership & Activities

National University of Costa Rica	Nicoya. Guanacaste
Tutor in Linear Algebra and Calculus	February 2024 – Present
<ul style="list-style-type: none">Designed weekly lesson plans focused on reinforcing key concepts for upcoming exams.Explained complex mathematical topics using practical and visual examples to enhance understanding.Delivered personalized math tutoring to over 20 students, helping 80% improve their exam scores.	

Skills & Interests

<ul style="list-style-type: none">Technical: Proficient in React, TypeScript, JavaScript, HTML, CSS, Tailwind CSS, React Query, Axios, React Hook Form, Zod, Git, GitHub, C# (.NET), MySQL, and REST APIs. Familiar with Next.js, NestJS, Vue.js, Angular, CQRS, Auto Mapper, Fluent Validation, and Google Drive API integration.Language: Spanish (Native), English (Intermediate)Soft Skills: Analytical, adaptable, quick learner, patient, positive attitude, empathetic, collaborative, and inclusive in team environments. Passionate about helping others succeed and promoting participation.Interests: Tutoring math, exploring tech, improving UX, contributing to community projects, and building helpful solutions.	
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