

Brandon Carrillo Álvarez

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Education

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|--|---------------|
| 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

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

Leadership & Activities

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

Skills & Interests

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