

# Oscar Moreno

Software engineer with startup experience deploying user-focused software solutions

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[github.com/runningTurtle2](https://github.com/runningTurtle2)

## Education

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**Bachelor of Applied Science in Software Development**, GPA 3.7

*Bellevue, WA / June 2025*

Bellevue College

**Relevant Coursework:** Data Structure & Algorithms, Advanced Web Development, Server Side Web Development, Application Architecture, Software Testing, Adv Data Access Techniques, Enterprise Data Apps

## Skills

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**Frontend:** TypeScript, JavaScript, React.js, HTML5, CSS, Tailwind, React Native

**Backend & Databases:** C#, .NET, ASP.NET Core, Node.js, Express.js, Next.js, PostgreSQL, SQL Server

**Cloud Platform & Services:** Google Cloud Platform, Firebase, Supabase, Azure

**Tool & More:** Git, GitHub, Unit Testing, Postman, Jira, Figma, Linux CLI

## Experience

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**Software Engineer - Ace Rocket (EdTech Startup)**

*Remote - WA / June 2025 – September 2025*

- Migrated the daily plan feature from frontend logic to a Node.js/Express REST API on Google Cloud Run, enabling tag-based Firestore querying and improving query performance and maintainability
- Extended the questions selection algorithm for the daily plan feature to incorporate student performance tiers and difficulty targeting improving user engagement
- Built a daily progress tracking system using a circular progress indicator with a Firebase-backed counter featuring state management for session persistence
- Implemented question lengths with HTML, CSS, and JavaScript featuring quit and continuation logic

**Software Engineer Intern - Ace Rocket (EdTech Startup)**

*Remote - WA / January 2025 – June 2025*

- Started the daily plan feature with an adaptive algorithm analyzing users' performance history to generate targeted question sets improving engagement, serving 150+ students
- Built a real-time dashboard with JavaScript and Firebase by tracking student progress across 4 math topics with expandable subtopic breakdowns and real-time correction rate calculations
- Validated API endpoints using Postman and wrote unit tests preventing regression bugs in production

## Academic Projects

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**TiriVelo Pet Services - Mobile Application (Capstone)**

*Remote - Canada / January 2025 – June 2025*

*A commercial cross-platform mobile application prototype for pet booking services*

- Developed a full-stack solution using React Native, TypeScript, PostgreSQL, and Supabase to support cross-platform compatibility and ensure scalability
- Designed and implemented the database schema with role-based access control (RBAC) to secure user data and enforce feature-specific permissions across different user types

**Fantasy Sports Team Management System**

*December 2024*

*A cloud-native distributed system for managing fantasy sports teams built with microservices on Azure*

- Built a Player Management Service using C#, ASP.NET Core, and Entity Framework with RESTful APIs enabling inter-service communication across 3 microservices
- Designed and implemented the database architecture using Azure SQL Database with normalized schemas and indexing strategies, maintaining proper data isolation across distributed services
- Securing all API endpoints with JWT-based authentication, applied Azure SQL firewall rules for database protection, and built error-handling patterns to ensure service reliability