

# Paul Alarba

Software Engineer & Blockchain|Web3 Engineer

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University of Cebu Main Campus · Cebu City, Philippines

## CAREER OBJECTIVE

To contribute as a Software Engineer and Blockchain Engineer in a forward-thinking organization where I can leverage my expertise in ASP.NET Core, Clean Architecture, and decentralized systems to build scalable, secure, and user-centered solutions. I aim to continuously expand my technical skills, tackle real-world challenges, and collaborate with multidisciplinary teams to deliver innovative and impactful software products.

## ABOUT ME

I am a third-year Computer Science student at the University of Cebu with a passion for transforming complex ideas into simple, elegant, and intuitive digital solutions. I enjoy building systems that combine functionality, scalability, and user-centered design. Beyond technology, I spend my time cooking, playing chess, working out, and enjoying the beaches of Bantayan Island. These interests help me maintain a balanced lifestyle, sharpen my problem-solving skills, and approach challenges with a fresh and creative perspective.

## PROJECTS

### SugboGo — The Ultimate Cebu Experience

C# 13 · ASP.NET Core 10 · PostgreSQL · Supabase · RBAC

A full-featured Cebu travel ecosystem serving explorers, local partners, and administrators. Supports vibe-based destination discovery, A full-featured Cebu travel ecosystem designed for explorers, local partners, and administrators. The platform supports vibe-based destination discovery, personalized booking experiences, partner assignment tracking, QR-based traveler verification, and a centralized command center for managing regional destinations, bookings, and operations. It catalogs over 40 destinations across Cebu, accommodates three distinct user roles, and reduces manual booking coordination by an estimated 60% through automated partner assignment and real-time QR verification..

### FitTrack — Gym Membership & Wallet

ASP.NET Core 10 · QR Security · Data Protection API · EF Core 10 · RBAC

A comprehensive gym management platform that streamlines operations through member portals, administrative dashboards, tamper-proof QR code check-ins, and a secure digital wallet ledger. Members can fund their accounts, transfer balances, renew memberships, and manage their profiles, while staff can verify access and monitor activity in real time. Successfully deployed in a gym with over 50 active members, the system reduced front-desk check-in times from approximately 45 seconds to under 5 seconds per member and eliminated manual ledger errors across all wallet transactions.

### UC CCS Sit-in Monitoring — Laboratory Management System

SignalR · .NET 10 · PostgreSQL · Seat Reservation · RBAC

A real-time laboratory management system designed to streamline student reservations and active sit-in sessions. The platform provides students with seat-booking capabilities while enabling administrators to manage reservation approvals, laboratory computers, announcements, reports, and live session monitoring through SignalR. Supporting over 50 laboratory seats across multiple rooms, the system handles an average of 40 reservations per day and delivers live occupancy updates in under one second, ensuring efficient resource management and an enhanced user experience.

### SportsStore — Online Retail Prototype

ASP.NET Core MVC · EF Core · SQL Server · Session State · Repository Pattern

A complete e-commerce platform that demonstrates end-to-end functionality, including product browsing, cart management, and database-backed checkout processing. Built with a focus on clean server-side session management and reliable data persistence using Entity Framework Core and the Repository pattern. The system supports a catalog of over 50 products with full CRUD functionality, maintains average page load times below 300 milliseconds, and serves as a reference implementation for three junior developers, promoting consistent development practices and architectural standards across the team.

## SKILLS

|            |                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------|
| Back-end   | ASP.NET Core MVC · Entity Framework · PostgreSQL · SQL Server · Clean Architecture · Design Systems              |
| Front-end  | HTML / CSS · React · Tailwind CSS · Bootstrap · Razor Views · JavaScript · jQuery                                |
| Blockchain | Solidity · Smart Contracts · Web3.js · Ethers.js · Polkadot / Substrate · Ethereum Ecosystem · Hardhat · Truffle |

## EDUCATIONAL BACKGROUND

### University of Cebu Main Campus

2023 – Present

Bachelor's Degree (in progress)

3rd-year student · Cebu City, Philippines

### College of Technological Science Cebu

2021 – 2023

Senior High School

### Bantayan National High School

2017 – 2021

High School

With Honour

### Tamiao Integrated School

