John Gabriel Alcantara

Full-Stack Developer | Roblox Developer | Embedded Systems | IT Support

IT student and hands-on developer with experience in Roblox game development, full-stack web applications, embedded systems, and technical support. Currently contributing to a Roblox car-game project, implementing and troubleshooting gameplay features, UI integration, and navigation systems. Experienced in AI-assisted coding, code review, iterative testing, and debugging, alongside practical experience with Python, APIs, databases, and ESP32 firmware. Strong technical problem-solving skills and experience working with existing codebases and translating requirements into working implementations.

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Experience

Roblox Game Developer — Commissioned Project
2026 - Present

Independent / Commissioned Game Development

- Contribute to gameplay feature development for an existing Roblox car game using Roblox Studio.
- Work on a Garmin-inspired navigation interface and player teleport system, integrating UI assets, scripts, and existing game components.
- Troubleshoot UI positioning, map alignment, player markers, and gameplay behavior through iterative testing and debugging.
- Review and refine AI-assisted Luau code, investigate errors, and validate implementations within Roblox Studio.
- Work with existing project structures and feature requirements to integrate changes while preserving intended game functionality.

Full-Stack & Embedded systems Intern
2026

MindBridge XR - Qatar Science and Technology Park(QSTP)

- Worked across the Engineering and IT departments, serving as a primary Arduino and embedded-systems resource.
- Contributed to frontend, backend, and firmware development for a sensor-based technology project.
- Developed and tested ESP32/ESP32-S3 firmware for collecting and transmitting sensor data.
- Integrated and tested 9-DoF motion sensors using I^2C communication and breadboard-based hardware prototypes.
- Worked with real-time sensor-data workflows involving MQTT, backend services, and database storage.
- Contributed to web application development using React/Vite and backend services using Python/FastAPI.
- Worked with PostgreSQL and SQLAlchemy for application data management.
- Diagnosed and resolved hardware, firmware, software, sensor, and connectivity issues during development.
- Assisted with technical documentation and project handover.

Independent Full-Stack Developer
2026

Dreamveil - Independent Project

- Developed and improved a GenAI dream-storyboard web application targeting Windows, Android, and iOS.
- Upgraded the application's image-generation model to Go Banana 2.
- Implemented image-saving functionality for generated content.
- Diagnosed and fixed multiple bugs across the application.
- Worked independently from requirements provided directly by the founder/CEO of Sports Vector.
- Delivered completed improvements to an existing application while working across the full stack.

Freelance Computer Technician
2024 - Present

Independent

- Diagnosed, repaired, and upgraded 10+ computers and laptops for individual clients.
- Performed Windows installations, driver configuration, BIOS setup, hardware installation, and system troubleshooting.
- Conducted data recovery and assisted with performance optimization on damaged or malfunctioning systems.
- Troubleshot hardware and software issues based on symptoms, testing, and system diagnostics.
- Provided technical guidance to users with varying levels of computer experience.

Technical Head
2023 - 2024

Youth for Christ Qatar

- Managed technical and audiovisual requirements for live events and organizational activities.
- Set up, operated, and troubleshot computers, displays, audio equipment, and other technical systems.
- Coordinated technical requirements with event teams and responded to issues during live activities.

Simulated Patient
2025 - 2026

Qatar University

- Participated in medical education and clinical simulation activities requiring consistency, professionalism, and clear communication.
- Followed detailed scenarios and instructions while interacting with university students and faculty.
- Demonstrated reliability and adaptability in structured professional environments.

Education

Bachelor of Science in Information Technology
2023 - Present

University of Doha for Science and Technology — Qatar

Skills

Programming & Development

Python • C++ • JavaScript • HTML/CSS • Full-Stack Web Development • REST APIs • Application Debugging • Luau (AI-Assisted Development and Code Review) • Roblox Studio • Gameplay Feature Implementation • Application Debugging

Frontend Development

React • Vite • Web Application Development • Responsive UI Development • Real-Time Data Visualization • Roblox UI Integration • Interactive UI Implementation

Backend & Databases

Python / FastAPI • SQLAlchemy • PostgreSQL • SQL • MQTT • API Development

Embedded Systems & IoT

Arduino • ESP32 / ESP32-S3 • Embedded C/C++ • Firmware Development • I²C • Sensor Integration • IMU / 9-DoF Sensors • MQTT / IoT Communication • Breadboard Prototyping

IT & Hardware

PC Assembly • Hardware Installation • Hardware Diagnostics • Hardware Troubleshooting • Windows Installation & Deployment • Driver Configuration • BIOS Configuration • Data Recovery • System Performance Optimization • End-User Technical Support

Tools & Software

Arduino IDE • VS Code • Git / GitHub • PostgreSQL • Microsoft Excel • CapCut • Roblox Studio

Projects

Roblox Car Game — Navigation & Teleport Systems 2026 - Present

Gameplay Development | Roblox Studio

STINGRAY — Sensor-Based Rehabilitation System </> 2026

Full-Stack / Embedded Systems Project

Dreamveil — GenAI Dream Storyboard </> ↗ 2026

Independent Full-Stack Project | 2026

High School Capstone Project (Automatic Fire Suppression System for Cars) </> 2022

Lead Programmer / System Builder

Certifications

Certificate of Appreciation, AgriTeQ Exhibitor - University of Doha for Science and Technology, 2026
Volunteered as an exhibitor for UDST's agricultural projects in AgriTeQ

4th Best Abstract, HS Capstone Project - Philippine International School - Qatar, 2022
Awarded with the 4th best constructed abstract in PISQ's Capstone Project competition

3rd Overall HS Capstone Project - Philippine International School - Qatar, 2022
placed 3rd overall in PISQ's Capstone Project competition.