

Juan Quintana

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TECHNICAL SKILLS

Python, JavaScript, C# .NET, C++, C, Java, React, NextJS, Full Stack, HTML, CSS, SQL, AWS, Data Structures & Algorithms.

EXPERIENCE

Software Engineer

DRACO Rocketry, Apogee Control Division

Jun. 2025 – Present

Mayaguez, PR

- Developing PID controllers and apogee-prediction algorithms to power active airbrake systems in high-powered rockets.
- Simulating flight dynamics and trajectories to calibrate control parameters, with the goal of achieving < 1% error margin from target apogee.
- Preparing and conducting live launch tests to validate airbrake performance and ensure simulation results translate into reliable real-world behavior.

Software Engineering Intern

CoStar Group

Jun. 2025 – Aug. 2025

Richmond, VA

- Engineered optimized SQL Server stored procedures filtering 500k+ records, achieving execution time of 3s and preparing for future ORM optimization with Entity Framework.
- Developed and deployed C# .NET API endpoints within CoStar's micro-frontend architecture, exposing backend functionality securely to React/Express clients.
- Integrated React frontend with backend APIs, implementing Figma designs to deliver a functional "Residential Entities" tab with filtering, sorting, and pagination for large datasets.

Technical Lead & Co-Founder

Stackz LLC

Mar. 2022 – Present

Puerto Rico

- Lead technical strategy and architecture for Zorral, designing a scalable B2B marketplace that connects contractors and suppliers, with secure payments and streamlined workflows.
- Designing and implementing core infrastructure with AWS Amplify Gen 2, Auth0, and DynamoDB, while evaluating long-term migration to a Golang-based microservice architecture with Kubernetes and AWS Aurora PostgreSQL.
- Drive product vision and team execution by translating supplier/contractor feedback into platform requirements, mentoring developers, and overseeing deployment pipelines for reliable releases.

PROJECTS

Zorral | React, NextJS, DynamoDB, AWS, JavaScript

Jun. 2022 – Present

- Zorral is a B2B construction materials marketplace that connects contractors with suppliers, reducing industry fragmentation and streamlining procurement.
- Enables contractors to generate RFQs, negotiate with suppliers in real time, and complete payments through the platform, reducing manual workflows and ensuring transaction security.
- Built on a modern cloud-native architecture leveraging AWS Amplify Gen 2, Auth0 authentication, DynamoDB, and Braintree payment integration, with a roadmap toward microservices and Kubernetes scalability.
- Currently participating in the Fase 1 Intensive incubator program, receiving mentorship and support to accelerate product development, validate the business model, and prepare for market launch.

EDUCATION

University of Puerto Rico at Mayaguez

B.S. of Computer Science and Engineering

Mayaguez, PR

Aug. 2021 – May 2026

- Google Tech Exchange Alumni

- GPA: 3.63

- Honor Student

- **Relevant Courses:** Data Structures, Software Engineering, Algorithms Design and Analysis, Advanced Programming, Computer Architecture, Operating Systems and Database Systems.