

# Juan Quintana

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## EDUCATION

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### University of Puerto Rico at Mayaguez

Mayaguez, PR

*B.S. of Computer Science and Engineering*

*Aug. 2021 – May 2026*

- Google Tech Exchange Alumni
- Honor Student
- **Relevant Courses:** Data Structures, Software Engineering, Algorithms Design and Analysis, Advanced Programming, Computer Architecture, Operating Systems and Database Systems.

## EXPERIENCE

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### Software Engineering Team Member

Jun. 2025 – Present

*DRACO Rocketry, Apogee Control Division*

*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

Jun. 2025 – Aug. 2025

*CoStar Group*

*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

Mar. 2022 – Present

*Stackz LLC*

*Puerto Rico*

- Lead technical strategy and architecture for Zorzal, 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

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### Zorzal | React, NextJS, DynamoDB, AWS, JavaScript

Jun. 2022 – Present

- Zorzal 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.

## TECHNICAL SKILLS

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