

# DEREK P. GARCIA FERRER

Software Engineer | Full-Stack Developer | Data & Analytics

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Portfolio: [derekgarcia.tech](https://derekgarcia.tech) | GitHub: [github.com/derekgf27](https://github.com/derekgf27)

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## PROFESSIONAL SUMMARY

Software Engineer with experience designing and developing modern full-stack web applications, enterprise software, and cloud-based business systems. Proficient in React, Next.js, TypeScript, ASP.NET, SQL Server, Firebase, and Supabase, with a proven ability to deliver software solutions that automate operations, improve decision-making, and streamline complex workflows. Passionate about building scalable, user-focused applications that solve real-world problems through thoughtful engineering and data-driven design.

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## SOFTWARE PROJECTS

### 27Outs Baseball Analytics Platform

Live Demo: [Baseball Analytics Demo](#)

Tech Stack: React • Next.js • TypeScript • Tailwind CSS • Supabase • PostgreSQL • Vercel

- Designed and developed a full-stack baseball analytics platform that enables coaches and analysts to collect, analyze, and visualize pitch-by-pitch game data in real time.
  - Engineered an event-driven architecture where raw game events generate advanced performance metrics including AVG, OBP, SLG, OPS, ERA, WHIP, platoon splits, pitch profiles, and player ratings.
  - Implemented real-time synchronization with Supabase Realtime, allowing analysts and coaches to collaborate simultaneously during live games without manual refreshes.
  - Built scouting dashboards, player comparison tools, PDF game reports, and interactive analytics that transform raw game data into actionable coaching insights.
  - Developed secure role-based authentication, administrative tools, Progressive Web App functionality, and deployed the production application on Vercel.
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### Antesala Reservations Restaurant Event Reservation Management Platform

Live Demo: [Antesala Reservations Demo](#)

Tech Stack: React • Next.js • TypeScript • Firebase Firestore • Tailwind CSS • Vercel

- Designed and developed a production-ready reservation management platform that streamlines private event bookings for a local restaurant hosting events ranging from 10 to 500 guests.

- Built a dynamic pricing engine that automatically calculates menu selections, beverages, gratuity, deposits, and multiple tax structures, eliminating manual quotation calculations.
  - Integrated Firebase Firestore for secure cloud storage, real-time synchronization, centralized menu management, and persistent reservation data across devices.
  - Developed an administrative dashboard featuring scheduling calendars, reservation management, payment tracking, revenue analytics, and branded PDF invoice generation.
  - Delivered a responsive mobile-first interface that significantly simplified reservation workflows for restaurant staff while improving the customer booking experience.
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## TECHNICAL SKILLS

**Programming Languages:** TypeScript • JavaScript • SQL • Python • Java • VB.NET

**Frontend:** React • Next.js • HTML5 • CSS3 • Tailwind CSS

**Backend & Cloud:** ASP.NET Web Forms (VB.NET) • Firebase • Supabase • REST APIs

**Databases:** Microsoft SQL Server • PostgreSQL • Firebase Firestore

**Developer Tools:** Git • GitHub • Cursor • Visual Studio Code • Visual Studio 2022 • Vercel

**Additional Technologies:** Responsive Web Design • Markdown • TinaCMS • Microsoft 365

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## PROFESSIONAL EXPERIENCE

### Software Engineering Intern

Ciracet

June 2025 – July 2025

- Authored bilingual technical documentation for CAMS 7, a cloud-based medical asset management platform supporting healthcare operations.
  - Documented inventory management, preventive maintenance, work orders, and regulatory compliance workflows for technical and operational users.
  - Structured documentation using Markdown, HTML, and TinaCMS for web-based and PDF publication.
  - Conducted usability reviews, incorporated stakeholder feedback, and improved documentation clarity, consistency, and user experience.
  - Collaborated with software engineers and implementation teams to align documentation with evolving system functionality.
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### Software Engineering Intern

Ponce Health Sciences University

January 2025 – May 2025

- Designed and developed a full-stack IT equipment management system using ASP.NET Web Forms (VB.NET) and Microsoft SQL Server.

- Designed a relational database supporting secure document storage, metadata management, audit logging, and role-based access control.
  - Developed responsive interfaces using HTML5, CSS3, and JavaScript to simplify administrative workflows and improve usability.
  - Implemented secure authentication, file upload processing, dynamic search, filtering, reporting, CSV export, and real-time PDF preview capabilities.
  - Performed testing, debugging, validation, and stakeholder-driven improvements to ensure software reliability and functional accuracy.
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## IT Intern

**Hotel Aloft, Ponce**

**September 2024 – December 2024**

- Assisted in configuring, deploying, and troubleshooting Ethernet networks and IP-based telephone systems throughout hotel operations.
  - Assigned and managed static IP addresses while maintaining switch connectivity for workstations, telephones, printers, and network devices.
  - Provided technical support for the hotel's reservation management software, including user account administration, troubleshooting, and software maintenance.
  - Collaborated with the IT supervisor to resolve network connectivity issues supporting front desk and administrative operations.
  - Assisted in maintaining and optimizing the hotel's IT infrastructure to improve reliability, uptime, and day-to-day operational efficiency.
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## ADDITIONAL EXPERIENCE

### Payroll Management

**La Antesala by Fusion**

**January 2024 – Present**

- Designed and maintained a custom Excel-based payroll management system that automated wage calculations and reduced manual payroll processing.
- Developed structured workflows and advanced formulas to improve payroll accuracy and operational efficiency.
- Managed payroll records and ensured timely employee compensation.

## EDUCATION

**Bachelor of Science in Computer Science**

Universidad de Puerto Rico, Ponce

Graduated: May 2025

**Languages:** English (Fluent) • Spanish (Native)