Daniel Felipe Pérez

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Professional Summary

Systems Engineer and Backend Software Developer with experience in the design and development of enterprise applications, specializing in building secure and scalable REST APIs using .NET and Azure services. Proficient in SQL Server databases and service-oriented architectures, with a strong focus on performance, security, and software maintainability.

Education

Corporación Universitaria Minuto de Dios, Systems Engineer in Systems Engineering   Feb 2022 – Nov 2025
– Bogotá, Colombia
- Professional training in systems engineering, software development, and information systems
- Completed a Diploma in Data Science, focused on data analysis, applied statistics, and Python-based data processing

Universidad Industrial de Santander, Web Application Development Diploma in Web   July 2021 – Nov 2021
Application Development – Online
- Focus on REST API design and service-oriented architectures using Java Spring Boot
- Training in backend development and modern web technologies

Corporación Universitaria Minuto de Dios, Software Development Technologist in   Oct 2017 – Nov 2020
Software Development – Villavicencio, Colombia
- Academic training in software development, web application development, and database management
- Foundations in programming, application design, and software architecture

Experience

Backend Software Developer (University Internship), Colombia Biomedical – Remote   Oct 2025 – Dec 2025
Work
- Contributed to the backend development of Sistole, an enterprise healthcare platform for IPS organizations, supporting appointment management, user administration, and clinical workflows.
- Designed and implemented RESTful APIs using .NET Core and SQL Server, including CRUD operations, validation logic, and centralized exception handling.
- Implemented cloud-based document storage using Azure Blob Storage, enabling secure upload, storage, and retrieval of institutional documents through unique access URLs.
- Refactored backend services by introducing structured DTOs to optimize data exposure, improve API response efficiency, and enhance security.
- Designed and implemented an automated medication reminder system using SQL Server, Azure Functions, and the Strategy pattern to support SMS and email notifications.

Platform & Database Administrator, Universidad Horizonte – Remote Work   Oct 2024 – June 2025
Platform administration and data management role focused on ensuring data integrity, system availability, and analytical reporting for academic and administrative operations.
- Led the administration and operational management of the Q10 academic platform within an educational institution, ensuring data availability, integrity, and system reliability.
- Managed database structures and access roles, enforcing data quality standards, security policies, and controlled access to academic and administrative information.
- Collaborated with academic and administrative teams to analyze institutional data, supporting data-driven decision-making processes.

- Designed and developed analytical reports and dashboards using Power BI, transforming operational data into clear and actionable insights.
- Provided platform support and optimization activities, resolving operational issues and ensuring service continuity.

IT & Technology Resources Coordinator, Corporación Iberoamericana de Ciencia y Tecnología CIBERCTEC – Villavicencio, Colombia   July 2024 – Mar 2025

IT coordination role focused on infrastructure support, system availability, information security, and operational continuity within an educational organization.

- Led IT area operations, managing software and hardware incidents and implementing effective solutions to ensure business continuity.
- Administered Microsoft 365 corporate email services, managing user accounts, licenses, access policies, and information security controls.
- Acted as primary IT responsible for resolving critical failures on the institutional landing page caused by PHP conflicts and hosting configuration issues, mitigating impacts on student acquisition and retention.
- Provided technical support and interim solutions during the development of the new corporate website, ensuring service availability.
- Led IT audit activities in preparation for ISO/IEC 27001 certification, aligning technological processes with international information security standards and managing required documentation.

Projects

Multi-Image Background Removal Web Application   July 2025

Client-side web application designed to upload and process multiple images in different formats, automatically removing image backgrounds and generating transparent outputs.

- Developed a responsive frontend using React, focusing on usability, visual design, and efficient client-side interactions.
- Implemented support for batch image uploads and multiple file formats, enhancing user productivity and workflow efficiency.
- Integrated mathematical and image-processing libraries to calculate background segmentation and generate transparent image outputs.
- Applied frontend performance optimization techniques to ensure smooth rendering and processing of images directly in the browser.

Alien Chasers GX   Apr 2021

2D shoot 'em up video game developed with pixel art style for the Opera GX Game Jam 2021, designed to run as an offline browser mini-game.

- Designed and developed core gameplay mechanics using JavaScript and GameMaker Studio 2, focusing on performance and responsive player controls.
- Implemented 2D game logic, collision detection, enemy behavior, and scoring systems for an arcade-style experience.
- Applied HTML5 and browser-compatible technologies to ensure offline execution without internet connectivity.
- Collaborated in the context of a game jam environment, delivering a complete and playable product within tight time constraints.

Skills

Backend Development: .NET Core, Java Spring Boot, RESTful API design, CRUD operations, DTOs, service-oriented architectures, exception handling, and backend optimization

Databases: SQL Server, MySQL; data modeling, query optimization, data integrity, and backend data structuring

IT & Platform Administration: Platform administration, incident management, system availability, Microsoft 365 administration, access control, and IT operations

Data Analysis & Reporting: Power BI, data analysis, dashboard development, reporting for academic and administrative decision-making

Languages: Spanish (native), English (professional working proficiency)