

Jonathan David Quespaz Sanchez

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[</> Angular, .NET](#)

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EXPERIENCE

• PUCE TEC

Adjunct Professor of Databases I (Part-Time)

Quito, Ecuador

April 2025 – Present

- Beginning my university teaching career by delivering the Databases I course. I teach data modeling fundamentals, SQL, and relational database design, combining theory with hands-on practice.

• Fibramax

Senior Software Developer

Sangolqui, Ecuador

November 2024 – Present

- Co-leading the development of an in-house ERP system to streamline operations and support business growth. My responsibilities include the optimization of backend development with Django, PostgreSQL, and Python, as well as frontend implementation using React. Additionally, driving the adoption of DevOps practices by implementing Docker and GitLab to enhance deployment automation, scalability, and system efficiency within an Agile environment.

• Netby IT Consulting

Software Developer

Quito, Ecuador

June 2024 – November 2024

- At Confiamed, a leading prepaid medicine insurance company, I worked extensively with Azure DevOps microservices to optimize and enhance backend operations. My responsibilities included bug fixing, implementing new functionalities, and ensuring system efficiency. I primarily focused on backend development using .NET, Entity Framework (EF), and SQL Server, all within an Agile environment.

• Sedemi

Senior Software Developer Analyst

Sangolqui, Ecuador

Mayo 2023 – May 2024

- Developed and implemented new Angular applications, adhering to approved functional documents and designs. I proactively suggested and coded enhancements to improve usability and compatibility. Additionally, I contributed to backend API development using the .NET framework and various design patterns. These applications were integral to supporting the migration to a new ERP system.
- The applications were specifically developed to support the Project Management department, Collections department, and the Production Plant for Construction.

• WebCreek

Software Engineer I

Quito, Ecuador

Feb 2021 – Feb 2022

- Designed and developed modules for an existing application focused on accounting logic, utilizing .NET for backend development and Angular for the frontend.
- Modified a web application to enhance responsiveness, utilizing SASS and integrating third-party libraries. I refactored the majority of styles and coordinated efforts to implement new modules, ensuring consistency and delivering an improved user experience.

• Disanort (Family Business)

English, Physics and Math Tutor

Sangolqui, Ecuador

2017 – Present

- Taught and provided academic support to students across middle school, high school, and their first years of higher education.
- Currently tutoring students when required

EDUCATION

- **Escuela Politecnica Nacional EPN** Quito, Ecuador
MSc in Software May 2020 – May 2024
 - Summa Cum Laude
 - Thesis [↗](#)
- **The University of Manchester** Manchester, UK
BEng in Computer Systems Engineering 2016 – 2019
 - First Class
 - Certificate of Higher Education [↗](#) and Academic Transcript [↗](#)

CERTIFICATIONS

- **Coursera** MOOC
TypeScript Operators - ID: PGEY2DE6YDLF [↗](#) Issued May – 2023
- **Coursera** MOOC
TypeScript Variables and Data Types - ID: Z9SP7XFK4CEU [↗](#) Issued May – 2023
- **Coursera** MOOC
Intoduction to Bash Shell Scripting - ID: N78MDGBG9GPB [↗](#) Issued May – 2023
- **Coursera** MOOC
Reviews and Metrics for Software Improvements - ID: P7JVG8XMHUX9 [↗](#) Issued Jul – 2020
- **Udemy** MOOC
Java Design Patterns & SOLID Design Principles [↗](#) Issued Jun – 2021

PUBLICATIONS

- A Closer Look at MOOC Accessibility: Comparing Local and Global Platforms with WCAG 3.0 in Mind [↗](#)

PROGRAMMING LANGUAGES EXPERIENCE

- **C:** Mainly used for the implementation of well-known algorithms and optimization techniques. Heuristics, dynamic programming, Dijkstra, are a few examples
- **Java:** Used for multi-threading performance analysis, simple GUI development, Android applications, distributed systems simulations, Spring Framework web apps development
- **Matlab:** Implemented machine learning algorithms such as linear regression, knn, k-means and Naive Bayes
- **SQL:** Analysed case studies based on the Relational and Enhanced Relational models, implementing them in an Oracle server
- **Python:** Analysed signals in the frequency domain, encoded and decoded multimedia files using different approaches, worked on error detection and correction aimed to mobile systems

ADDITIONAL INFO

- **Languages:** Spanish – Native speaker, English – C2 Cambridge Certificate [↗](#)
- **Qualifications:** Driver's license, Open water diver – 1806AT8758 [↗](#)