

# Jonathan David Quespaz Sanchez

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[JonathanDQS](#)

</> Angular, .NET

[See light theme](#), [See Spanish Version](#)

## EXPERIENCE

- WebCreek** Quito, Ecuador  
*Software Engineer I* Feb 2021 – Feb 2022
  - Designed and developed modules in an existing application involving accounting logic. .NET was used for the backend and Angular for the frontend
  - Worked on the modification of a web application to support responsiveness which involved SASS and learning about third party libraries. Refactored most of the styles and coordinated efforts to implement new modules maintaining consistency to provide a good user experience
- WebCreek** Quito, Ecuador  
*Software Engineer - Internship* Aug 2020 – Feb 2021
  - Worked in a multicultural team mainly developing reports with the DevExpress Reporting tool, gaining some experience in the .NET framework and Angular, handling the requests and providing a nicely looking interface
- Disanort (Family Business)** Sangolqui, Ecuador  
*English, Physics and Maths Tutor* 2017 – Present
  - Taught and helped students from middle and high school during summers
  - Currently tutoring students when required

## EDUCATION

- Escuela Politecnica Nacional EPN** Quito, Ecuador  
*MSc in Software* May 2020 – Present
- The University of Manchester** Manchester, UK  
*BEng in Computer Systems Engineering* 2016 – 2019
  - First Class
  - Certificate of Higher Education and Academic Transcript
- INTO Manchester** Manchester, UK  
*IFY - International Foundation Year* 2015 – 2016
  - Results: Further Maths - A\*, Maths - A\*, Physics - A\*, EAP - A
- Unidad Educativa Santa Ana** Sangolqui, Ecuador  
*High School Degree in Sciences* 2008 – 2014
  - Result: 9,76/10

## CERTIFICATIONS

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- **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*

## PROJECTS

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- **HelpMeOut:** Web app aimed to students. Managed the backend with PHP and databases with MySQL and phpmyadmin.
- **Stendhal:** Developed, tested and deployed a feature in an open source MORPG.
- **ParcOS:** Implemented a simple OS for a Raspberry Pi [↗](#)

## PROGRAMMING LANGUAGES EXPERIENCE

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- **C:** Mainly used for the implementation of well-known algorithms and optimization techniques. Heuristics, dynamic programming, Dijkstra, are a few examples
- **Assembly ARM:** Developed a primitive OS and used it for the implementation of microcontroller's routines
- **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
- **PHP:** Backend management of a web page, fairly simple and straight forward implementation
- **SQL:** Analysed case studies based on the Relational and Enhanced Relational models, implementing them in an Oracle server
- **Verilog:** HDL used to build a wide range of units ranging from traffic light controllers to more complex systems such as a video display unit
- **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
- **JavaScript:** Experience acquired in order to use the Google Maps API and Geo-location services in order to facilitate the use of the Spring Framework in web apps
- **C#:** Backend handling of requests in a web application. Mostly worked on DB updates, filter data optimally before processing to pass it to the frontend, and report generation using DevExpress

## ADDITIONAL INFO

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