


# Jonathan David Quespaz Sanchez

jonathanquespaz2007@yahoo.es

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</> Java, Assembly ARM

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## EXPERIENCE

- **Disanort (Family Business)** Sangolqui, Ecuador  
*English, Physics and Maths Tutor* 2017 – Present
  - Taught and helped students from middle and high school during summers, most of them did better in the following years
  - 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

## PROJECTS

- **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

- **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

## ADDITIONAL INFO

- **Languages:** Spanish – Native speaker, English – C2 Cambridge Certificate
- **Qualifications:** Driver's license, Open water diver – 1806AT8758