Jonathan David Quespaz Sanchez

jonathanquespaz2007@yahoo.es

Get Latest version

JonathanDQS

</> Java, Assembly ARM

See light theme

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 analyisis, 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