

Jonathan David Quespaz Sanchez

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</> Angular, .NET

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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)** Sangolquí, 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** Sangolquí, Ecuador
High School Degree in Sciences 2008 – 2014
 - Result: 9,76/10

CERTIFICATIONS

- 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

- **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
- **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

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