


Jonathan David Quespaz Sanchez

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</> Angular, .NET

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EXPERIENCE

- Sedemi** Sangolqui, Ecuador
Senior Software Developer Analyst May 2023 – Present
 - Developed and implemented a few brand new Angular applications according to the functional documents and designs previously approved, suggesting and coding improvements regarding usability and compatibility as well as helping with the API creation on the backend which was coded with the .NET framework using different design patterns. The purpose of the applications is to support the migration to another ERP.
 - The applications were developed for the Project Management department and Collections department as well as the Production Plant for Construction
- 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, high school and first 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

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*

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