Rodolfo Quispe

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Education

2017-Present **Master of Science in Computer Science Student**, *University of Campinas (UNICAMP)*, Brazil. GPA 4/4. Graduation in March 2019

2012-2016 **Bachelor in Computer and Systems Engineering**, *Universidad Nacional de San Antonio Abad del Cusco (UNSAAC)*, Perú, 2nd place of all students in class for the last 3 years.

Awards and Recognitions

- **UNICAMP:** 2017, Brazilian National Council for Scientific and Technological Development Scholarship.
- **ACM International Collegiate Programming Contest (ICPC):** 2015, 6th in all Peru; 2014, 1st in the South of Perú; 2013, top 13% participants in the South Region of Latin America.
- **UNSAAC:** 2014, Winner of the Technology Fair UNSAAC, with a project using PIC 16F84A; 2013, Winner of the Cusco Programming Contest "Cuscontest"; 2012, Achieved 2nd in the Joint Entrance Examination.
- **Colombian Competitive Programming Network:** 2015, Winner of PI-DAY programming contest.

Languages and Technologies

- C, C++, Python, Java, HTML, PHP, CSS, C#, MATLAB, OpenCV, Scikit-Learn, Scikit-Image
- Netbeans IDE, Eclipse, Visual Studio, Microsoft SQL Server, MySQL, OpenMP, Docker, CUDA, Linux

Relevant Courses Undertaken/Ongoing

- Machine Learning, Formal Languages, Algorithms, Databases,Networks & Teleprocessing, Software Engineering, Robotic, Concurrent & Parallel Programming,Computer Organization & Architecture, Computer Vision.

Projects and Experience

2018 **MICROSOFT – SOFTWARE DEVELOPMENT ENGINEER INTERN**.

- Developed Natural Language Processing and Machine Learning models for conversational search over Bing.

2017 **CROWD COUNTING USING DEEP LEARNING**.

- Extended Multi-Column Convolutional Neural Network for crowds counting in images trained with effective data augmentation based on candidates thresholding, competitive results against state-of-art. Implemented with Pytorch.

2017 **PARALLEL CENsus TRansform hISTogram (CENTRIST) USING GPUs**.

- Implemented parallel CENTRIST using CUDA, Clang and C for GPUs. Got up to 15X speet up.

2016 **TYPICAL DANCE RECOGNITION USING MACHINE LEARNING**.

- Recognition of images of Typical Dances from Cusco using Histogram of Oriented Gradients, Local Binary Pattern, Support Vector Machine, AdaBoost and Random Forest. Implemented with OpenCV, Scikit-learn and Scikit-image.

2015 **REPOSITORY OF THESIS AND STUDENT WORKS FOR UNSAAC**.

- Implemented a software to store, search and discuss about thesis, projects, books and homeworks of all subjects taught in the UNSAAC. Used PHP, HTML and MySQL for the project and documented it using UML case tools.

2014 **ASSEMBLER PROJECTS WITH PIC 16F84A**.

- Implemented a calculator and a distance sensor with a final user interface controlled by a PIC and assembler.

Positions of Responsibility and Extra-Curricular Activities

2014 – 2016 **ACM Chapter Cusco Chair**

Representative of ACM as a Student Chapter, organize events to promote Computer Science and Technology in Cusco

2017 – 2018 Problem setter in competitive programming contest in Cusco: "Cuscontest"; Peru: "Peruvian Scholar Contest"; LATAM: "IEEE International Congress on Electronics, Electrical Engineering and Computing"

2014 – 2018 Organized Programming Contest in Cusco, witnessing participation of over 160 students per year.

2014 – 2015 Organized series of talks about master's and doctoral thesis on research in Computer Science, BioInformatics and C++ workshop, witnessing participation of over 350 students from Cusco.

2013 – 2015 **Programming Training Camps**

Peruvian training Camp (2013 - 2015, topped 5 in all contest), Bolivian training Camp (2014, topped 2 in all contest)