Rodolfo Quispe

Education

- 2019-2023 PhD in Computer Science, University of Campinas (UNICAMP), Brazil, 4/4 GPA.
- 2017-2019 MS in Computer Science, University of Campinas (UNICAMP), Brazil, 4/4 GPA.
- 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

- o Microsoft: 2023, Pattent: "MLHash: De-identification designed for Machine Learning"
- o Microsoft Fall Hackathon: 2021, Best Project Award; Most Innovative Project Runner-Up.
- International Conference on Information and Knowledge Managment (CIKM): 2020, Best Paper Award
- UNICAMP: 2017;2019, 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.
- o Colombian Competitive Programming Network: 2015, Winner of PI-DAY programming contest.

Languages, Technologies and Courses

- ∘ C, C++, Python, Java, PHP, C#, Transformers, OpenCV, Scikit-Learn, Scikit-Image, PyTorch, TensorFlow.
- OVisual Studio, SQL, OpenMP, Docker, CUDA, Linux, ONNX.
- Software Engineering, Concurrent & Parallel Programming, Machine/Deep Learning, Natural Language Processing (NLP), Information Retrieval, Computer Vision, Search, Recommendations.

Projects and Experience

2022-Present MICROSOFT – APPLIED SCIENTIST II.

- Leading project for Name Entity Recognition (NER), applied for Personal Health Information (PHI) tagging.
- Developed methods for lossless surrogation applied to PHI Deidentification.
- Developed models to improve privacy handling for PHI for text summarization using Differential Privacy.
 2020-2022 MICROSOFT SOFTWARE DEVELOPMENT ENGINEER.
- Lead incubation project including cross teams colaboration, backend development, products recommendations and NLP for receipt expansion and understanding.
- o Contributor to major open source project for NLP and Deep Learning: huggingface/transformers
- \circ Implemented supervised and self-supervised NLP pipelines. Models deployed in production improved Revenue by 5%, Click-though Rate by 14% and Abandonment by 19% in Bing Shopping Vertical.
 - 2018-2023 UNICAMP COMPUTER VISION FOR OBJECT REIDENTIFICATION AND TRACKING.
- Proposed method for adaptive use of Reldentification(ReID) information on Multi-Object Tracking in videos. Improve State-Of-the-Art (SOTA) F1 MOT by 2%.
- Proposed efficient distillation of multi-modal information for ReID in images. Improved SOTA rank-1 by 4.5%.
- Proposed supervision method to leverage low informative image regions in ReID representation. Improved SOTA rank-1 by 4.7%.
 - 2018 MICROSOFT SOFTWARE DEVELOPMENT ENGINEER INTERN.
- o Developed NLP models for Conversational Search in Bing to narrow users intention. Features released to production.

Positions of Responsibility and Extra-Curricular Activities

- 2021 Peruvian Simposium in Deep Learning. Speaker and Menthor
- 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"
- 2013 2015 **Programming Training Camps**

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