AGUILERA CONTI, AGUSTÍN

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Summary:

As a recent graduate with a degree in Telecommunications Engineering, I combine my technical experience in telecommunications with a growing interest in Data Science, Machine Learning, and DevOps. I possess proficient skills in Python and system management, along with a solid understanding of IP networks. I am a proactive learner, eager to expand my skills and experiences. I have demonstrated exceptional teamwork and responsibility, and I am keen to contribute to innovative projects while absorbing knowledge from experienced professionals.

Professional Experience:

MLOps Engineer - Professional Internship
- Universidad Nacional de Río Cuarto
- Sep 2023 - Dec 2023
- Río Cuarto, Córdoba, Argentina (Remote)
- Description: During my internship at GCID (Data Science Research Group), I am responsible for deploying a platform for the development, training, and implementation of machine learning models in cloud computing environments. I work closely with the Data Science Research Group, exploring and evaluating key MLOps technologies. My focus is on reusability, reproducibility, and scalability, with the aim of efficiently implementing MLOps practices in the university setting. From researching and selecting open-source technologies to designing and implementing infrastructure, developing pipelines, and integrating models, my work contributes to advancing Machine Learning solutions for the university.
- Skills: Kubernetes, Agile Methodologies, Kubeflow, Vagrant, Terraform, Ansible, GitHub

Tech Skills:

- **DevOps Tools:** Experienced in Unix/Linux command-line operations, TCP/IP networking, and automation scripting (Python, Bash) for network and task management.
- **Containerization & Deployment:** Proficiency in Docker for containerization, ensuring efficient application deployment and system portability.
- **API Development:** Skilled in FastAPI for developing automated APIs, facilitating seamless data integration with databases and external services.
- **Machine Learning & Computer Vision:** Practical experience with OpenCV, NumPy, PyTorch, and TensorFlow for object detection, tracking, and model generation and optimization.
- **Monitoring and Control:** Exposure to Mosquitto MQTT, WebSockets, Grafana, and Flask for project monitoring and control.

Experience:

- **TCP/IP Applications Course Project:** Utilized Mosquitto MQTT, WebSockets, Grafana, and Flask for hydraulic pump monitoring and control.
- **Digital Image Processing Course Project:** Applied Docker, OpenCV, NumPy, and PyTorch for object detection, tracking, and counting using YOLO.
- **TCP/IP Applications Course Optimization Project:** Configured MySQL database in a Docker container, accessed through Python, used FastAPI for endpoint generation, querying, and TensorFlow for model generation and optimization.

Education:

Bachelor's Degree in Telecommunications Engineering
- National University of Río Cuarto (UNRC), March 2017 - December 2023
- Specialization in Data Services and Multimedia Systems, with a focus on Radio Communications and Telecommunications.
- Average grade: 8.07

High School Diploma with a specialization in Business Administration, Non-profit Organizations, and Public Entities
- Hispano Argentino College
- March 2011 - December 2016
- Average grade: 8.86

Additional Education & Training:

- STECHS Company Seminar on Fixed Access Networks to the Internet - October 2022
- ITBA Data Analysis Course - October 2022
- Technical Considerations of Photography for Digital Image Processing (GIDAT) - October 2022
- Assistant in "Introduction to Python Language in Telecommunications Course" (GIDAT) - April 2022
- GNU/Linux Course for Engineering - National University of Rio Cuarto (UNRC) - October 2021
- Basic Python Course - UNRC - November 2021

Languages:

- Spanish: Native
- English: B1

Hobbies:

- Gym
- Socializing and spending quality time with friends