

BARBARA DA SILVA OLIVEIRA

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Education

Phd student in Computer Science , Université Côte d'Azur, I3S/INRIA - Nice, France	2023 - Present
Master in Ubiquitous Networking, Computer Science , Polytech Sophia Antipolis - Nice, France	2021 - 2022
Bachelor in Telecommunications Engineering , Universidade Federal do Ceará, Brazil	2017 - 2022

Experience

Scientific Scholarship Program , GREAt-Universidade Federal do Ceará - Fortaleza, Brazil	Sept 2022 - Dec 2022
<ul style="list-style-type: none">Research on frameworks for Internet of Things data processing on the Edge Layer, in a SmartFarm context.Working with VirtualBox, AWS, Kubernetes, OpenFaaS, Raspberry Pi.	
Research Intern , INRIA - Sophia Antipolis, France	Mar 2022 - Aug 2022
<ul style="list-style-type: none">Research project on Edge and Cloud Computing and Function as a Service (FaaS) platforms for the Internet of Things. Study of architecture, deployment and placement capabilities of FaaS platforms.Development of a systematic mapping study published in the conference IoTBDS (International Conference on Internet of Things, Big Data and Security).	
Tech Intern , Instituto Ser Integral - Fortaleza, Brazil	Sept 2020 - Aug 2021
<ul style="list-style-type: none">General tech support services for the organization.Website creation, image and video editing for social media, translation and transcription tasks.	
Scientific Scholarship Program , GTEL -Universidade Federal do Ceará - Fortaleza, Brazil	July 2018 - Aug 2021
<ul style="list-style-type: none">Study of Multidimensional Mathematics, Signal Modeling, MIMO Systems, Vehicle Platooning Systems, Electroencephalography (EEG) signals.Publications in Brazilian Conference Simpósio Brasileiro de Telecomunicações e Processamento de Sinais (SBrT).	
Scientific Scholarship Program , GTEL -Universidade Federal do Ceará - Fortaleza, Brazil	Sept 2017 - June 2018
<ul style="list-style-type: none">Multi-connectivity in 4G/5G Heterogeneous Mobile Networks.Study of Telecommunications principles, Network Protocols, Analysis of Quality of Service (QoS).	

Publications

- Towards Leveraging the Concept of Influence to Enhance Collaborative Cyber-Physical Systems Development.** MPM4CPS @MODELS 2024.
DOI:10.1145/3652620.3688568
- Function-as-a-Service for the Cloud-to-Thing Continuum: A Systematic Mapping Study.** IoTBDS 2023.
DOI:10.5220/0011982600003482
- Vehicle Platooning System with Tensor-based Space-Time Coding Schemes.** SBrT 2021.
DOI:10.14209/sbrt.2021.1570731199
- Codificações Espaço-Temporais Tensoriais em Sistemas MIMO Sem Fio.** SBrT 2021.
DOI:10.14209/sbrt.2021.1570726430
- Codificação Espaço-Temporal de Khatri-Rao em Sistemas MIMO Sem Fio.** SBrT 2020.
DOI:10.14209/SBRT.2020.1570659711

Skills and Technologies

Programming: C/C++, Python, Shell Script, MATLAB, Java
Cloud and DevOps: AWS, Docker, Kubernetes, Jenkins, VirtualBox, Vagrant
Machine Learning: Scikit-learn, TensorFlow
Version Control: GitHub, GitLab

Languages

Portuguese: Native **English:** Advanced B2-C1 **French:** Intermediate B2