Samuel Lucas de Moura Ferino

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[Google Scholar profile]

PROFESSIONAL EXPERIENCE

Since August/2021   **RESEARCHER** [PDF Online] , *Federal University of Rio Grande do Norte*, *Brazil*

Works on the Research and Development (R&D) project called ***Intelligent Network Management for 5G*** - iNMS 5G. This is an R&D project of the Digital Metropole Institute of the Federal University of Rio Grande do Norte, funded by LENOVO DO BRASIL S/A.

– ***Leading a small team in microservice integration tasks***

– ***Supporting junior developers***: pair programming and code review

– ***End-to-end system design***: sequence diagrams and UML diagrams

– ***Backend development***: Python/Flask/Pipenv, RabbitMQ, MySQL, pytest/unittest, Docker/Docker-compose, Java/Dropwizard/JUnit 5, Make, Grafana, Prometheus, SonarLint, Kubernetes, Openstack, Vagrant

– ***Infrastructure provision***: Openstack, Kubernetes, Docker/Docker-compose, Helm Charts, Ansible, Vagrant, Shellscript/Bashscript, Linux - Centos & Ubuntu 18.04/20.04/22.04

– ***Implementation of CI/CD practices***: GitLab-CI, SonarQube, Docker, including GitLab Containers (& Packager) Registry

EDUCATION

2021–2023   Masters in Systems and Computation, *Federal University of Rio Grande do Norte*, *Brazil*

Supervisor: Dr. Uirá Kulesza [Google Scholar profile]

Master Thesis: *Unveiling the Teaching Methods Adopted in DevOps Courses*
[PDF Online]

[Academic Transcription & Certificate - PDF Online]

2016–2021   Bachelor in Information Technology, *Federal University of Rio Grande do Norte*, *Brazil*

[Academic Transcription & Certificate - PDF Online]

PUBLICATIONS

2023   **Samuel Ferino**, Marcelo Fernandes, Elder Cirilo, Lucas Agnez, Bruno Batista, Uirá Kulesza, Eduardo Aranha, and Christoph Treude. Overcoming Challenges in DevOps Education through Teaching Method. *In ICSE'23: Proceedings of the IEEE/ACM 45th International Conference on Software Engineering - SEET Track.*
DOI: 10.1109/ICSE-SEET58685.2023.00022 (JOURNAL RANKING: **ERA A***)

2023   **Samuel Ferino** and Uirá Kulesza. Unveiling the Teaching Methods Adopted in DevOps Courses. *In SBQS'23: Proceedings of the 22nd Brazilian Symposium on Software Quality.*
DOI: 10.1145/3629479.3629483

2023   Felipe S. Dantas Silva, Ayuri Bessa, Sérgio Silva, **Samuel Ferino**, Pablo Paiva, Marcos Medeiros, Lucas Silva, José Neto, Kevin Costa, Charles Santos, Douglas Maciel, Lucileide Silva, Anderson Inoue, Roger Immich, Eduardo Aranha, Allan Martins, Vicente Sousa, Uirá Kulesza, Marcelo Fernandes, Marcos Salvador, Guilherme Pupio, Ramon Fontes, Augusto Neto. Proactive ML-Assisted and Quality-Driven Slice Application Service Management to Keep QoE in 5G Mobile Networks. *In NFV-SDN'23: Proceedings of the IEEE Conference on Network Function Virtualization and Software Defined Networks.* **DOI**: 10.1109/NFV-SDN59219.2023.10329589

2023   **Samuel Ferino** and Uirá Kulesza. Unveiling the Teaching Methods Adopted in DevOps Courses. *In CBSoft'23: Companion Proceedings of the 14th Brazilian Conference on Software: Theory and Practice.* **DOI**: 10.5753/cbsoft_estendido.2023.233378

2022   Marcelo Fernandes, **Samuel Ferino**, Anny Fernandes, Uirá Kulesza, Eduardo Aranha, and Christoph Treude. DevOps education: an interview study of challenges and recommendations. *In ICSE'22: Proceedings of the IEEE/ACM 44th International Conference on Software Engineering - SEET Track.* **DOI**: 10.1145/3510456.3514152 (Journal Ranking: **ERA A***)

2021   **Samuel Ferino**, Marcelo Fernandes, Anny Fernandes, Uirá Kulesza, Eduardo Aranha, and Christoph Treude. Analyzing DevOps Teaching Strategies: An Initial Study. *In SBES'21: Proceedings of the 35th Brazilian Symposium on Software Engineering - Insightful Ideas and Emerging Results Track.* **DOI**: 10.1145/3474624.3477071 (**Distinguished Paper Award**)

2020   Marcelo Fernandes, **Samuel Ferino**, Uirá Kulesza, and Eduardo Aranha. Challenges and Recommendations in DevOps Education: A Systematic Literature Review. *In SBES'20: Proceedings of the 34th Brazilian Symposium on Software Engineering - Education Track.* **DOI**: 10.1145/3422392.3422496

GRANTS AND AWARDS

2023   1st **Place Award** – Master's Degree Thesis Competition at the Brazilian Conference on Software: Theory and Practice (CBSoft) – [PDF Online]

1. Award related to the master's thesis *"Unveiling the Teaching Methods Adopted in DevOps Courses"*.
2. Issued by the Software Engineering Doctoral and Master Theses Competition (CTD-ES 2023), part of the 14th Brazilian Conference on Software: Theory and Practice (CBSoft'23), hosted in Campo Grande/Brazil in September 2023.

2023   1st **Place Award** – Master's Degree Thesis Competition at the Brazilian Software Quality Symposium (SBQS) – [PDF Online]

1. Award related to the master's thesis *"Unveiling the Teaching Methods Adopted in DevOps Courses"*.
2. Issued by the Software Thesis and Dissertation Contest (CTD-QS 2023), part of the 22nd Brazilian Symposium on Software Quality (SBQS), hosted in Brasília/Brazil in November 2023.

2021   **Distinguished Paper Award** – Brazilian Symposium on Software Engineering – Insightful Ideas and Emerging Results (SBES) – [PDF Online]

1. Distinguished Paper Award in the 35th Brazilian Symposium on Software Engineering (SBES) with the title *"Analyzing DevOps Teaching Strategies: An Initial Study"*, part of the 12th Brazilian Conference on Software: Theory and Practice (CBSoft'21), hosted in Gramado/Brazil (virtual conference due to COVID).

Updated December 2023