



# Renato C. Juaçaba Neto

## Network Researcher & Junior Developer

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Seeking position in tech company where I can employ my software development skills and research abilities. I'm proud to have started my career as a level 1 tech support and have managed to climb to senior developer level. It is within my capacities to work throughout the stack of an application, from frontend to backend and supporting infrastructure (cloud based or not). Additionally, with my research background I have achieved efficient problem-solving skills and independent task management. While short, my period as a substitute professor and assistant helped improve my communication and people handling skills.

### SKILLS

Web Development	Java	Spring Framework	C#	Bootstrap	React	Angular	Node	Redis	Next.js
Data Analysis	Python	Jupyter	Pandas	Seaborn	RDF datasets	SPARQL	Scikit		
Infrastructure Management	Linux	Shell scripting	Kubernetes	CI/CD pipelines	SLURM clusters	Google Cloud			
Non-Technical	Open source	Teaching	Team work	Adaptability	Self-taught				

### EXPERIENCE

<b>Senior developer @ European Bioinformatics Institute</b> .....	Oct 2022 — Present
— Single person responsible for maintaining & expanding legacy web service (React, Spring, GCloud, Kubernetes);	>2.5 years
— Upgraded legacy system to the latest versions of components & reorganized open source repositories;	Cambridge, UK
— Organized hackathon projects to improve application features and published article on improvements;	
— Contributed in international and multi-institutional project on FAIR practices for research;	
— Help maintain and integrate new data sources to Lucene based corporate search engine.	
<b>Assistant Researcher @ University of Strasbourg</b> .....	Feb 2019 — Jul 2022
— Aided in practical and semi-practical network classes;	3.5 years
— Implementation of IoT networks simulations and prototypes of proposals (C++ and JavaScript);	Strasbourg, France
— Performed analysis and presentation of research proposals performance data (Python);	
— Cooperated in writing peer-reviewed papers on research results;	
— Research areas : LoRa, Aggregation, Anonymization, Multi-Owner IoT.	
<b>Substitute Teacher @ Federal Institute of Ceará</b> .....	Oct 2018 — Dec 2018
— Taught multiple classes at bachelor and technical level;	3 months
— Responsible for network, database, and software engineering courses;	Cedro, Brazil
— Helped conclude a delayed semester due to lack of teachers;	
— Only stayed for brief period due to PhD opportunity.	
<b>Network analyst @ Casebrás Group</b> .....	Oct 2017 — Sep 2018
— Help desk support to internal clients on all levels of complexity;	1 year
— Development of web solutions for internal use of the several departments of the group;	Fortaleza, Brazil
— Helped gather requirements for software being developed by external team;	
— Administration and monitoring of network infrastructure in addition to headless servers (Linux and Windows).	
<b>Assistant Researcher &amp; developer @ National Center of High Performance data processing</b> .....	Jul 2014 — Mar 2015
— Development of web interface to access scientific cloud and cluster infrastructure. This system started and managed the execution of scientific payloads through a web interface;	9 months
— Creation and maintenance of scripts to manage and generate reports on Linux environments and cluster usage;	Fortaleza, Brazil
— Collaborated on writing paper and poster on recent service improvements;	
— Deployment of scientific applications on cluster and cloud environments.	

### EDUCATION

<b>PhD in computer networks @ University of Strasbourg, France</b> .....	2019 — 2022
Title : Privacy-aware Aggregation of IoT Streams in Multi-Owner Networks	
<b>Master in Computer Science @ Federal University of Ceará, Brazil</b> .....	2015 — 2017
Researched wireless resource allocation in Narrowband IoT.	
<b>Bachelor in Computer Science @ Federal University of Ceará, Brazil</b> .....	2010 — 2014
Focus : Computer networks and security. Researched Mesh networks at the end of the bachelors.	

MAIN PUBLICATIONS

Juaçaba Neto, R. C., Merindo, P., Theoleyre, F. (2021). Data Aggregation for Privacy Protection of Data Streams Between Autonomous IoT Networks. *IEEE Symposium on Computers and Communications (ISCC)*. <https://doi.ieeecomputersociety.org/10.1109/ISCC53001.2021.9631401>

Juaçaba Neto, R. C., Merindol, P., Theoleyre, F. (2021). Scalability of LPWAN for Smart City Applications. *International Wireless Communications and Mobile Computing Conference (IWCMC)*. <https://doi.org/10.1109/IWCMC51323.2021.9498698>

Juaçaba Neto, R. C., Rodrigues, E. B., Oliveira, C. T. de. (2017). Performance Analysis of Resource Unit Configurations for M2M Traffic in the Narrowband-IoT System. *Simpósio Brasileiro de Telecomunicações e Processamento de Sinais (SbrT)*. <https://api.semanticscholar.org/CorpusID:189807044>

OTHER ACTIVITIES & INFORMATION

80+ hours of courses on Pluralsight	<a href="https://app.pluralsight.com/profile/renatocjn">https://app.pluralsight.com/profile/renatocjn</a>
Board member of PhD student association StrasAIR	2020 — 2022
Co-Founder of study group and extension project on information security	2012 — 2017
Final year of High School in the United States (Archbold High School, Ohio)	2009