Top Skills

Team Leadership

Cloud Computing

DevOps

Languages

Spanish (Native or Bilingual)

English (Professional Working)

Publications

Haptic Networking Supporting Vertical Industries

The Making of 5G: Building an End-to-End 5G-Enabled System

Unsticking the Wi-Fi Client: Smarter Decisions Using a Software Defined Wireless Solution

Minimizing the Impact of P2P-TV Applications in Access Links

Describing the Access Network by Means of Router Buffer Modelling: a New Methodology

Luis Sequeira

Helping companies to build cloud-based solutions | Innovator and research enthusiast | Author
London, England, United Kingdom

Summary

Versatile and forward-thinking Cloud Professional with a strong background in designing and optimizing scalable cloud solutions. Leading a great team to deliver cutting-edge infrastructure. Combining technical excellence with a passion for research and innovation. Successfully spearheaded projects at the intersection of technology and creativity. Driving strategic initiatives, fostering collaboration, and ensuring the success of cloud-based projects within a dynamic and growth-focused organization. https://www.luissequeira.com

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Experience

Quantum Motion
2 years 10 months

Lead Cloud Engineer
March 2023 - Present (10 months)
London, England, United Kingdom

Leading the Cloud Engineering Team

Driving the implementation and automation of on-prem/cloud based solutions, such as a HPC cluster, a Machine Learning platform based on Sagemaker, serverless applications and storage solutions

Engage with technology vendors and suppliers to deliver optimal results.

Senior Software Engineer
March 2021 - February 2023 (2 years)
London, England, United Kingdom

Driving cloud adoption and expansion focusing on applying best practices, automation, Infrastructure as Code, and using CI/CD tools and methodologies while also collaborating with other teams.

Building cloud-based serverless solutions to provide data ingestion coming from quantum computing experimentation.

Sabbatical
Author
May 2020 - February 2021 (10 months)
London, England, United Kingdom

A long-term family trip was planned but a global pandemic ruined it. So, think fast, redo the planning and adapt to the change. Successfully published a book, journal and conference papers. Mentoring and co-supervising a PhD student.

Cloudreach
Cloud Engineer
March 2019 - May 2020 (1 year 3 months)
London, United Kingdom

Helping companies to reach their goals using AWS services (e.g., Fargate, EC2, ECR, ELB, SSM, SNS, S3, IAM, Lambda, AWS Backup, API Gateway, Cloudwatch) and IaC tooling such as Cloudformation and Terraform.

Engagement with stakeholders to align goals and best practices focused on the project success, following AWS Best Practices and documentation.

Providing cloud-based Proof-of-Concept (PoC) for clients along with detailed technical documentation describing both high and low level architecture.

Solving technical challenges and creating serverless applications using a combination of AWS API Gateway, Lambda functions VPC End-Points and Python.

Experimenting with AWS Greengrass and IoT systems to provide Edge Cloud solutions based on Raspberry Pi, Machine Learning and Lambda functions.

King's College London
Research Associate
May 2017 - February 2019 (1 year 10 months)
London, United Kingdom

Leading internal team and designing a Lane Merge Coordination (connected vehicles/autonomous driving) based on a microservice architecture using Machine Learning Clasifiers and Reenforcement Learning (https://5gcar.eu).

Architecture design of a distributed Edge Cloud based on Kubernetes, SDN to support robotics and augmented reality applications, using orchestration and monitoring tools such as Cloudify, Grafana and Prometheus.

Working with stakeholders in architectural design and analysis of cloud infrastructure to provide Multi-Cloud Orchestration in a 5G Testbed using OSM from ETSI MANO framework and OpenStack (https://www.initiate.ac.uk).

Involvement with industrial stakeholders and partners for architectural design facing presentation of results and analysis.

Member of a team who deployed UK first 5G network. The main role was to orchestrate network services across different clouds.

R&D activities in end-to-end low latency communications based on edge cloud, software defined networking and cloud orchestration.

University of Zaragoza
6 years 8 months

Research Scientist
July 2015 - April 2017 (1 year 10 months)
Zaragoza, Spain

Integrate different network and cloud technologies (VMware - vSphere, OpenWRT, Software Defined Networks SDN, OpenvSwitch, Click modular router) for developing a coordination platform between access points in order to improve quality of service (QoS), reduce radio interference, and optimize Wi-Fi spectrum usage.

Design and implementation of technical demonstrations and proof-of-concepts.

Predoctoral Researcher
September 2010 - July 2015 (4 years 11 months)
Zaragoza, Spain

Influence strategies and develop techniques for improving network utilization, consumption, quality perceived by user of real network scenarios in Ethernet and wireless networks.

Develop methods for analyzing network traffic characteristics by means of Wireshark, tcpdump and scripting.

In parallel, contribute as a part-time Technical Staff in the IT Department during 2014-2015. Significant reduction on time-response for solving software/ hardware issues in a department with more than 1000 computers. Software and hardware installation and management of different operating systems (Windows, Linux hosts and servers). Software and hardware troubleshooting.

MEP - Ministry of Public Education of Costa Rica
Department Coordinator
January 2002 - September 2010 (8 years 9 months)
CTP Jesús Ocaña, CTP Heredia and CTP Monseñor Sanabria

Leading a multi-professional team engineers/professors and 90 students each year. Manage department investment projects and advise other departments in purchases of computer equipment, electronic devices and tools. Promote inventory management mechanisms and occupational health standards.

Universidad Latina de Costa Rica
Lecturer
September 2003 - August 2010 (7 years)
Heredia, Costa Rica

Teaching in different subjects (~ 150 students each school year): computer networks (Ethernet, wireless, network protocols, etc.), communication systems (digital/analog systems design, 3G, 4G), digital systems and microprocessors.

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Education

University of Zaragoza
Doctor of Philosophy (Ph.D.), Information Technology · (2011 - 2015)

University of Zaragoza
Master's Degree, Telecommunications Engineering · (2010 - 2011)

University of Costa Rica
Master's Degree, Electrical, Electronics and Communications Engineering · (2004 - 2006)

University Hispanoamericana
Bachelor's Degree, Electronics Engineering · (1998 - 2002)