

EDUCATION

PHD Researcher **INESC-ID Lisboa** **Sep 2015 – Exp. 2024**

- *Cross-Service Consistency for Large Scale Distributed Applications*: we aim at providing meaningful consistency between services with different consistency semantics.

Research Intern **VMware Research Group @ Palo Alto** **Summer 2018**

- *Weave*: automating management planes using constraint program synthesis. We applied constraint solving into cluster management by taking a cluster's management plane described in SQL and automatically synthesize it into a constraint program. Supervised by Lalith Suresh.

Visiting Researcher **University of Texas @ Austin** **Summer 2017**

- *Improving F2FS energy consumption*: worked on improving F2FS by replacing random with sequential IO access approach. Goal is to reduce energy conception on DB systems. Supervised by Vijay Chidambaram.

Master's Degree **Instituto Superior Técnico** **Completed Fall 2014**

- Thesis in Predictive Elasticity for Cloud Computing applications. Published at IEEE CloudCom 2014.
- B.S.E and M.S.E. in Computer Science and Engineering with Major in Software Engineering

SELECTED PUBLISHED PAPERS

more @ Google Scholar

- J. Loff, et. al. "*Antipode: Enforcing Cross-Service Causal Consistency in Distributed Applications*" in Proc. of Symposium on Operating Systems Principles (SOSP 2023)
- L. Suresh, et. al. "*Building scalable and flexible cluster managers using declarative programming*" in Proc. of Usenix Conference on Operating Systems Design and Implementation (OSDI 2020)
- L. Suresh, et. al. "*Synthesizing Cluster Management Code for Distributed Systems*" in Proc. of Workshop on Hot Topics in Operating Systems (HotOS 2019)
- J. Loff, et. al. "*Transparent Cross-System Consistency*" in Proc. of Workshop on Principles and Practice of Consistency for Distributed Data (co-located with EuroSys'17)
- D. Porto, et. al. "*Making data center computations fast, but not so furious*" in 7th Workshop on Multi-core and Rack-scale Systems (co-located with EuroSys'17)
- J. Loff and J. Garcia. "*Vadara: Predictive Elasticity for Cloud Applications*" in Proc. of IEEE CloudCom 2014

PROGRAMMING LANGUAGES AND TECHNOLOGIES

Open source @ github.com/jfloff

- **Languages**: Java, Python, Ruby, SQL
- **Frameworks**: Docker, gRPC, Thrift, AWS, RabbitMQ, MongoDB, Redis

EMPLOYMENT

Co-Founder & CTO **Flecto** **Apr 2016 -**

- Flecto is the platform that makes businesses thrive in the Circular Economy.
- Worked as CTO and Lead Backend developer. Responsible for architecture and build team.

Associate Software Engineer **Accenture Technology Solutions** **Nov 2014 - Sep 2015**

- Implemented a demand forecasting workflow to improve field force task management
- Implemented a mobile-based solution using ClickSoftware integrated with SAP

ACADEMIC EVENTS

- **EuroSys Doctoral Workshop (EuroDW 2016) @ EuroSys 2016**: Presented my PhD proposal entitled "*Integrating strong consistency across multiple stateful services*"
- **Technical Book Reviewer for "Implementing Cloud Patterns in AWS"**: Focused on reviewing technical details regarding deploying known cloud computing patterns on AWS. Published by PACKT Publishing