

EDUCATION

- **Pontifícia Universidade Católica do Rio de Janeiro** Rio de Janeiro, Brazil
Bachelor of Computer Science *Jan. 2015 – Dec. 2019*
 - **Bachelor's Thesis:** Extension of the Linux's Socket interface with Lua. (portuguese)
 - **Awards:** 90% Scholarship for 3 years.
 - **Course Emphasis:** Programming languages theory and Distributed systems
- **Pontifícia Universidade Católica do Rio de Janeiro** Rio de Janeiro, Brazil
Minor in Entrepreneurship *Jul. 2017 – Jul. 2019*

EXPERIENCE

- **CUJO AI** Rio de Janeiro, Brazil
Developer - Contractor *Jan. 2017 - Present*
 - **Cross architecture development:** ARM, x86 and MIPS architectures.
 - **Lunatik:** A porting project of the Lua language to the Linux kernel.
 - **NFLua:** A packet scripting engine based on Lunatik and Netfilter.
 - **Meta-data parsing:** Parsers written in Lua.
 - **Packet meta-data analysis:** Layer 3/4 meta-data analysis and real time data collection.
 - **Packet reputation:** Real time packet reputation analysis with cloud communication and kernel/user-space synchronization.
 - **Proof of Concepts:** Written numerous proof of concepts in Lua and C for upcoming features.
- **Linux** Rio de Janeiro, Brazil
Contributor *Present*
 - **Network subsystem:** Sporadic contributions towards better documentation.
- **LabLua** Rio de Janeiro, Brazil
Collaborator *Jul. 2016 - Present*

CERTIFICATIONS

- **Google Summer of Code** Rio de Janeiro, Brazil
Associate Mentor for LabLua *May 2019 - Aug. 2019*
 - **XDPLua:** An alternative to eBPF using Lua in eXpress Data Path (XDP).
- **Google Summer of Code** Rio de Janeiro, Brazil
Associate Mentor for LabLua *May 2018 - Aug. 2018*
 - **Rcu for Lunatik:** A Lua binding for the kernel Rcu API.
 - **Socket for Lunatik:** A Lua binding for the kernel Socket API.

SKILLS

- Ability to analyze complex technical information.
- Conduct research.
- Excellent problem solver.
- Work well independently and within a team setting.
- Work within an agile scrum team.
- Thrive in dynamic, fast-paced environments.
- Strong interpersonal skills.

TECHNICAL SKILLS

- Proficiency in **C** and **Lua**.
- Excellent knowledge of **Linux kernel** internals and **Operating systems** designs.
- Excellent knowledge of **Compilers optimization techniques** and **Compilers architecture**.
- In-depth knowledge of **Linux kernel network stack** and **assembly**.
- Good knowledge of **low-level debugging**.
- Good knowledge of **C++**, **Java**, **Python** and **Shell scripting**.
- Knowledge of **Haskell** and **Agda**.

CONFERENCES

- **Google Summer of Code 2018**: Conference sponsored by Google in Sunnyvale, USA.
- **Lua Workshop 2018 (Speaker)**: Conference sponsored by CUJO AI in Kaunas, Lithuania.
- **Lua Workshop 2017**: Conference sponsored by KONG in San Francisco, California.
- **LuaConf 2017**: Conference sponsored by PUC-Rio in Rio de Janeiro, Brazil.
- **LuaConf 2016**: Conference sponsored by PUC-Rio in Rio de Janeiro, Brazil.