

## EDUCATION

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- **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.
  - **Awarded:** 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 – Dec. 2019*

## EXPERIENCE

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- **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 scripting language to the Linux kernel.
  - **NFLua:** A packet scripting engine based on Lunatik and Netfilter.
  - **Meta-data parsing:** Protocols parser written in Lua for software interrupt processing.
  - **Packet meta-data analysis:** Layer 3/4 meta-data analysis and real time data collection.
  - **Layer 3 quarantine:** A layer 3 packet quarantine using skb references.
  - **Packet reputation:** Real time packet reputation analysis with distributed communication and kernel/user-space synchronization.
  - **Proof of Concepts:** Written numerous proof of concepts in Lua and C for upcoming features, researching the feasibility of the feature in an embedded platform with limited resources.

## CERTIFICATIONS

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- **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. Developed by Caio Messias.
  - **Socket for Lunatik:** A Lua binding for the kernel Socket API. Developed by Chengzhi Tan.

## PROJECTS

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- **Ulp Lua:** A upper layer protocol for socket scripting with Lua.
- **Lua LLVM Binding:** A Lua binding for the C LLVM Backend.
- **Lua in Kernel:** Continuous development and support for kernel ports of the Lua scripting language.
- **Lunatik:** A port of the Lua language for the x86 Linux kernel. Originally developed by CUJO AI.
- **PoC Driver:** A driver that provides a pseudo device to run Lua scripts inside the kernel. Written for proof of concepts.
- **Personal Website:** Where I write about interesting stuff.

## CONFERENCES

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- **Google Summer of Code 2018:** Conference sponsored by Google for GSoC Mentors in Sunnyvale, California.
- **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.