Gabriel Cruz

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EDUCATION

University of São Paulo | ICMC

Brazil

MS Computer Science

Apr 2024 - Jul 2026 (expected)

University of São Paulo | ICMC

Brazil

BS Computer Science

Feb 2016 - Feb 2021

Université de Bretagne Occidentale

France

International Exchange Student

Jan 2020 - Jun 2020

EXPERIENCE

P2P Engineer — IFT

April 2025 – Present (Remote)

- Core maintainer of Nim's libp2p library, ensuring reliability and long-term maintainability.
- Implemented and helped design key connectivity protocols (AutoTLS, AutoNAT, etc.), improving interoperability, performance and reliability.
- Refactored critical components and coordinated development with internal teams and external open-source contributors.

Rust Engineer — Riff.CC

March 2024 - April 2025 (Remote)

- Core developer of Lis, an open-source distributed filesystem in Rust focused on efficiency and reliability.
- Collaborated with a culturally diverse team to design and implement decentralized data storage and access solutions.

Golang Engineer - Protocol Labs

Feb 2022 - Jan 2024 (Remote)

- Developed and maintained Estuary, a Golang tool to push files into the Filecoin network, owning the integration with Autoretrieve, making Estuary go from hundreds to tens of thousands of data retrieval queries per second
- Built over 5 different tools to ingest data into the Filecoin network, including dozens of PR contributions on over 10 different Open Source projects along with other 15 developers on the team
- Was responsible for writing most of the Golang API functionality integrations, engaging in customer-facing discussions about usability and responsiveness
- Developed Rust tooling and SDKs for interacting with Qubic and Solana

Software Engineering Lead - Major League Hacking

Oct 2020 - Feb 2022 (Remote)

- Mentored over 50 Open Source fellows on the MLH fellowship program about code quality, new software technologies and languages, design and soft skills
- Worked with maintainers from projects like Amplify, Flask, Beego and HTTPie to help review PRs and provide functionality implementations and bug fixes

Python Engineer - Major League Hacking

Jun 2020 - Oct 2020 (Remote)

- Selected among 20,000 candidates at the Open Source MLH Fellowship program to work on a remote, asynchronous team with people from over 30 different countries
- Worked on backend web Python and Golang projects, using Github Actions and Docker for testing and deployment of changes

PROJECTS

CruzOS

github.com/gmelodie/cruzos

Built an Operating System from scratch using Rust. Implemented interrupt handlers, memory allocation, and communication with peripherals such as VGA and keyboard.

Nesquic

github.com/gmelodie/nesquic

Implemented a Rust version of the popular networking tool Netcat that supports creating QUIC connections instead of TCP and UDP raw sockets.

SKILLS

Programming Languages: Rust, Python, C/C++, Golang, Shell scripting, Nim

Technologies: Linux/Unix, Git, IPFS, Flask, Docker, Tokio-rs, Github Actions

Natural Languages: Portuguese, English (TOEFL iBT 107/120), French (DELF B2), Spanish

Certifications: Cisco Certified Network Associate (CCNA)