GABRIEL CRUZ

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EDUCATION

University of São Paulo | ICMC   Brazil
MS Computer Science   Apr 2024 - Present

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

Rust Engineer - Riff.CC   March 2024 - Present (Remote)
- Core Developer at the Lis project, an open source, distributed filesystem written in Rust.
- Working in a culturally diverse team to build efficient data decentralization 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

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

Security Consultant - Ganesh Security   Jun 2020 - Oct 2020 (Remote)
- Partnered with a law firm to implement and secure data privacy LGPD policies (a set Brazilian laws similar to GDPR) in several different companies
- Conducted security assessments and produced vulnerability reports to make sure the infrastructure and personnel was also up to good security standards

Security Researcher - Université de Bretagne Occidentale   Jan 2020 - Jun 2020 (Brest, France)
- International exchange cybersecurity research on Social Engineering Attacks, developed a fully-fledged framework for social engineering assessments
- Collaborated with over 30 other international students to test the project

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, Elixir
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)