

GABRIEL CRUZ

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EDUCATION

University of São Paulo ICMC MS Computer Science	Brazil Apr 2024 - Present
University of São Paulo ICMC BS Computer Science	Brazil Feb 2016 - Feb 2021
Université de Bretagne Occidentale International Exchange Student	France Jan 2020 - Jun 2020
Cisco Certified Network Associate (CCNA) Routing and Switching	Remote Nov 2023

EXPERIENCE

Software Engineer - Protocol Labs	Feb 2022 - Dec 2023 (Remote)
<ul style="list-style-type: none">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 secondBuilt 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 teamWas 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)
<ul style="list-style-type: none">Mentored over 50 Open Source fellows on the MLH fellowship program about code quality, new software technologies and languages, design and soft skillsWorked with maintainers from projects like Amplify, Flask, Beego and HTTPie to help review PRs and provide functionality implementations and bug fixes	
Open Source Software Engineer - Major League Hacking	Jun 2020 - Oct 2020 (Remote)
<ul style="list-style-type: none">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 countriesWorked 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)
<ul style="list-style-type: none">Partnered with a law firm to implement and secure data privacy LGPD policies (a set Brazilian laws similar to GDPR) in several different companiesConducted 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)
<ul style="list-style-type: none">International exchange cybersecurity research on Social Engineering Attacks, developed a fully-fledged framework for social engineering assessmentsCollaborated with over 30 other international students to test the project	

PROJECTS

CruzOS Built my own Operating System from scratch using Rust. Implemented interrupt handlers, memory allocation, and communication with peripherals such as VGA and keyboard.	github.com/gmelodie/cruzos
Nesquic Implemented a Rust version of the popular networking tool Netcat that supports creating QUIC connections instead of TCP and UDP raw sockets.	github.com/gmelodie/nesquic

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 (DELFB2), Spanish