

Gabriel Cruz

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RESEARCH AND EDUCATION

UNIVERSIDADE DE SÃO PAULO

BS IN COMPUTER SCIENCE | [ICMC](#)

Jan 2016 - Jan 2021 (expected) | São Carlos, Brazil

UNIVERSITÉ DE BRETAGNE OCCIDENTALE

RESEARCH EXCHANGE PROGRAM | [UFR SCIENCES](#)

Jan 2020 - July 2020 (expected) | Brest, France

- Invited researcher on Social Engineering Attacks
- Attended intermediate and advanced French classes
- Helped organizing several parties and visibility events for hundreds of people as part of the West-Up group for the LGBTQ+ community of Brest
- Interacted with the CS community through the CS student association Obi 1. Played games and discussed topics such as frameworks and programming languages with other students

WORK EXPERIENCE

GANESH SECURITY

COMPUTER NETWORKING GROUP LEAD

Jan 2019 - Present | São Carlos, Brazil

- Developed several Capture The Flag (CTF) challenges for the freshmen selection process regarding computer networks (protocols, wifi, handshakes, etc.)
- Organized and gave dozens of talks on topics such as DoS and MITM attacks, IP spoofing and phishing techniques (HSTS hijacking and website cloning)

QUERO EDUCATION

SOFTWARE ENGINEERING INTERN | QUERO BOLSA

Jul 2018 - Aug 2018 | São José dos Campos, Brazil

- Developed a web application to generate real-time statistics and data visualization from a PostgreSQL database using Elixir's Phoenix web framework
- Engineered SQL database queries using Elixir's Ecto database wrapper
- Displayed the data using Google Charts
- Deployed the application as a real-time statistics dashboard seen daily by everyone in the company

UNIVERSIDADE DE SÃO PAULO

TEACHING ASSISTANT | CS DEPARTMENT

Jan 2017 - Jul 2017 | São Carlos, Brazil

- Awarded a scholarship for working as a teaching assistant in the CS introductory course
- Developed and graded coding assignments in C about fundamental programming concepts such as variables, pointers, functions, data structures and algorithms
- Guided and helped in the learning process of more than 120 students

SKILLS

TECHNICAL | PROGRAMMING AND TOOLS

OVER 2 YEARS:

Python • C • Shell script

Linux/Unix • Git • Vim/Neovim • Numpy

OVER 6 MONTHS:

Go • C++ • Javascript • Java • Assembly

GDB • Wireshark • BeautifulSoup

NATURAL LANGUAGES

Portuguese (native) • English (TOEFL iBT 107/120) •

French (DELF B2)

PROJECTS

IPV6 WORKSHOP MENTOR | [SLIDES](#), [MATERIAL](#)

- IPv6 workshop for more than 30 students and professors at Universidade de São Paulo
- Simulated realistic scenarios and developed practical exercises to reinforce the learning process
- Covered topics such as history of the protocol, public vs private addresses, and unicast vs multicast addresses

DOS ATTACKS WORKSHOP MENTOR | [MATERIAL](#)

- Gave a course on DoS attacks for more than 50 people at the biggest computer science undergraduate event of the country: Semcomp
- Covered amplification techniques, botnets, peer-to-peer networks, TCP and UDP flooding, etc

HEROES BUILD SCRAPER | [GITHUB REPO](#)

- Python web scraper for hero builds of the MOBA game Heroes of the Storm which automatically gets content from a website displays it in-game
- Used BeautifulSoup and Requests library
- Contributed with 7 other people through GitHub and participated in Digital Ocean's Hacktoberfest program for Open Source development

VOLUNTEER WORK

UNIVERSIDADE DE SÃO PAULO | VISIT MONITOR

Guided more than 30 high school students throughout an entire afternoon, going through most of the laboratories, classrooms and the library of the university campus

HAPPY CODE | MONITOR FOR CHILDREN

Guided the kids through the process of developing a mobile app: brainstorming, paper designing, usability tuning, and finally developing an elevator pitch