Gabriel Cruz

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RESEARCH AND EDUCATION

UNIVERSIDADE DE SÃO PAULO
BS in Computer Science | ICMC
Jan 2016 - Jan 2020 (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
- Part of the LGBTQ+ student association West-Up. Helped organizing and attended several LGBTQ+ visibility events
- Part of the computer science student association Obi 1. Played games and discussed computer science topics, such as frameworks and programming languages, with other students

EXPERIENCE

GANESH SECURITY
Computer Networing 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 developed several talks on topics such as DoS attacks using botnets and infected machines; MITM attacks, IP spoofing and phishing techniques (HSTS hijacking and website cloning)

QUERO EDUCATION
Software Engineering Intern | Quero Bolsa
Jul 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
- Used Google Charts to display the data in graphs
- Displayed the application as a real-time statistics dashboard for 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
- Taught classes in topics such as Unix permissions, shell scripting, daemons and Vim

SKILLS

TECHNICAL | Programming and Tools
Python • C • Go • Shell script • PostgreSQL • C++ • Java • Assembly • Javascript Git • Linux/Unix • Vim/Neovim • Wireshark • GDB • Numpy

NATURAL LANGUAGES
Portuguese (native) • English (TOEFL iBT 107/120) • French (DELF B2)

PROJECTS

IPV6 WORKSHOP MENTOR | Slides, Material
- Crash course on IPv6 technologies for the students and professors of the University of São Paulo
- Developed realistic scenarios and promoted practical exercices 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 the biggest computer science undergraduate event of the country (Semcomp)
- Covered amplification techniques, botnets, peer-to-peer networks overall architecture, TCP and UDP flooding, etc

HEROES BUILD SCRAPER | Repo
- Python webscrapper for hero builds of the MOBA game Heroes of the Storm which automatically gets content from a website displays it in-game
- Open Source project, received contributions by participating in the Hackthoberfest program from Digital Ocean

VOLUNTEER WORK

UNIVERSIDADE DE SÃO PAULO | Visit Monitor
Guided five groups of 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

METHALURGIC SYNDICATE | Parkour Coach
Helped keep children safe in a free introductory Parkour session for children in need. Guided warm-up, cool-down and stretching exercises