

Caetano Borges

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EDUCATION

École Polytechnique Fédérale de Lausanne <i>Bachelor of Engineering in Computer Science, Exchange semester</i>	Lausanne, Switzerland Jan. 2025 – Jul. 2025
Pontificia Universidad Católica de Chile <i>Bachelor of Engineering in Computer Science, Minor in Theoretical Computer Science</i>	Santiago, Chile Mar. 2022 – Jun. 2027
<ul style="list-style-type: none">Ranked #1 out of 850 in the cohort with a 4.0 GPA.Academic excellence scholarship awarded to the #1 ranked student.	

EXPERIENCE

Applied Cryptography Researcher <i>CISPA Helmholtz Center for Information Security – cispa.de</i>	Sept. 2025 – Present Hybrid - Saarbrücken, Germany
<ul style="list-style-type: none">Researched oblivious data structures and algorithms for the stable matching problem family.	
Content Engineer <i>Hack The Box – hackthebox.com</i>	Oct. 2020 – Jun. 2023 Remote
<ul style="list-style-type: none">Engineered advanced binary exploitation training material for cybersecurity experts and CTF enthusiasts.	
Penetration Tester <i>Nivel4 CyberSecurity – nivel4.com</i>	Jan. 2023 – Mar. 2023 Santiago, Chile
<ul style="list-style-type: none">Provided ethical hacking services for critical infrastructure such as banks, insurance providers, etc.	
Security Researcher <i>Independent – c4ebt.github.io</i>	Nov. 2020 – Feb. 2021 Remote
<ul style="list-style-type: none">Discovered a novel attack vector on Linux's most widely used software library, the GNU C Library (<i>glibc</i>).	

ACADEMIC EXPERIENCE

Data Structures Research Assistant <i>UC Chile</i>	Aug. 2024 – Dec. 2024 Santiago, Chile
<ul style="list-style-type: none">Researched novel worst-case-optimal data structures (qdags) for database joins.	
Logic & Deep Learning Research Assistant <i>University of Cambridge & UC Chile</i>	Dec. 2023 – Aug. 2024 Santiago, Chile
<ul style="list-style-type: none">Researched the logic capabilities of Graph Neural Networks that employ external memory and data structures.Visiting researcher at the University of Cambridge.	
Teaching Assistant <i>UC Chile</i>	Mar. 2023 – Present Santiago, Chile
<ul style="list-style-type: none">Discrete Mathematics (IIC1253) '24 (1, 2), '25 (2); Computing (IIC1005) '23 (1, 2), '24 (1, 2), '25 (2).	

EXTRACURRICULARS

Competitive Programming	Jan. 2024 – Present
<ul style="list-style-type: none">Competed in collegiate competitive programming representing <i>UC Chile</i>.Won the 2024 edition of the Chilean Programming Tournament with team <i>IMC alto</i>.	
Capture The Flag	May 2019 – Present
<ul style="list-style-type: none">Participated in the International Cybersecurity Championship (ICC) 2023, 2024 and 2025 editions as Team Latam's binary exploitation specialist.Competed in CTFs with teams <i>Crusaders of Rust</i> and <i>BirdsArentReal</i> as a binary exploitation specialist.	
Security UC Club	Sept. 2022 – Present
<ul style="list-style-type: none">Founded the Cybersecurity Club at UC Chile.Lead the organization of 3 CTFs: DCCTF (2022), Hack.ING 2023 and 2024, with 600+ in-person participants.	

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Rust, Multi-arch Assembly, SageMath, Ruby, JavaScript
Tools/Frameworks: IDA, Ghidra, GDB, Pwntools, Burp Suite, Docker, Git, Ruby on Rails, React
Spoken Languages: Spanish (native), Portuguese (native), English (C2)