

# Eduardo Vasconcelos

MSc in Computer Science

Security Engineer, Technical Instructor

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[GitHub](#)

[LinkedIn](#)

[Website](#)

## Key Highlights

- 9+ years of experience in the software industry with emphasis on Security Engineering;
- Experience in teaching programming at the technical level;
- MSc in Computer Science awarded for national-level excellence in Software Engineering research in 2024;
- Computer Engineer awarded for excellence in the undergraduate thesis in 2016;
- Creative and fast learner with a proven ability to leverage and apply knowledge across a wide range of technologies and environments;
- Proficient in three languages: Portuguese (native), English IELTS: C1, and French TCF: B2-C1.

## Skills Matrix

Level	Application Security	Complementary
Advanced	Security Engineering	Research & Development
	Threat Modeling	
	Penetration Testing	
	Vulnerability Assessment	
	Security Code Review	
Intermediate	Security Awareness	Full Stack Development
	Reverse Engineering	
	Cryptography	
Familiar	DevSecOps	SysAdmin
	Incident Response	

## Tech Stack

- Backend: Django, FastAPI;
- Frontend: React, Bootstrap;
- Database: PostgreSQL, SQLite, MongoDB;
- Other: Android (Java, Kotlin), Android NDK (C, C++), GitLab CI/CD, Docker, AWS.

## Work History

- **Technical Instructor @ SENAI, Brazil (on-site)**  
May 2025 — Present
  - Taught Python programming and Microsoft Power BI courses.
- **Master Application Security Architect @ SiDi, Brazil (remote)**  
Aug 2024 — Present
  - Conducted threat modeling, security architecture reviews, and assessments for Android and web applications, including Samsung Wallet and Knox;
  - Collaborated closely with development teams to integrate security into the Software Development Life Cycle (SDLC) and anticipate vulnerabilities;
  - Revitalized the company's Security Champions program;
  - Designed and implemented security solutions, acting as an engineer for both backend and frontend applications;
  - Provided guidance and mentoring to less experienced peers.
- **Senior Mobile Security Engineer @ iFood, Brazil (remote)**  
Feb 2022 — Aug 2024
  - Designed and implemented security and fraud prevention mechanisms for mission-critical Android and iOS applications with over 40 million active monthly users;
  - Reverse engineered malicious Android apps to reveal methods and behaviors used by fraudsters in food delivery services;
  - Integrated Runtime Application Self-Protection (RASP) solutions into GitLab CI/CD pipelines for mobile apps.
- **Senior Software Security Analyst @ SiDi, Brazil**  
Apr 2019 — Feb 2022
  - Delivered ongoing offensive security testing services to Samsung, emphasizing application security for Android and web applications;
  - Conducted research on Android API and OS vulnerabilities on behalf of Samsung, including issues related to Android accessibility service abuses and permission circumvention.
- **Information Security Analyst @ Hacker Rangers, Brazil**  
Jun 2017 — Apr 2019
  - Delivered comprehensive services in web application and network security assessments, as well as phishing campaigns;
  - Developed, maintained, and administered Hacker Rangers, a SaaS cybersecurity awareness platform;
  - Installed, configured, provided training for, and managed IBM Security Guardium database audit and protection virtual appliances, supporting both private organizations and government agencies.
- **Information Technology Intern @ Embraer, Brazil**  
Sep 2016 — Jun 2017
  - Contributed to the development of an IT Change Management plan;

- Conducted analyses of corporate web traffic.
- **Engineering Intern @ SigMEDIA, Ireland**  
May 2014 — Jul 2014
  - Developed a machine learning model designed to detect laughter in human speech;
  - Processed digital voice signals to train the model.

## Education

- **Master's Degree in Computer Science @ USP, Brazil**  
Feb 2022 — Aug 2025
  - Research topic: leveraging mutation testing techniques to inject vulnerabilities into Android apps, providing a novel approach to evaluating mobile security testing procedures;
  - Received the Distinguished Paper Award at the Brazilian Conference on Software 2024 (CBSOFT'24) for my work, "Mutation Testing to Support the Security Testing of Android Applications";
  - Served as a teaching assistant for Software Engineering.
- **Postgraduate Diploma in Software Engineering @ Unicamp, Brazil**  
Feb 2019 — Dec 2019
  - One-year Postgraduate Diploma program in Software Engineering, covering a range of disciplines within the field, including software design, development, testing, and project management;
  - Graduated with a GPA of 9.4 out of 10.0.
- **Engineer's Degree in Computer Engineering @ USP, Brazil**  
Feb 2012 — Jul 2017
  - Awarded the Sao Paulo Research Foundation (FAPESP) undergraduate research scholarship, contributing to a research project focused on flood forecasting in urban areas;
  - Received the Best Computer Engineering Undergraduate Thesis Award in 2016 for my work on emotion recognition in human speech using Machine Learning;
  - Graduated 13th out of 59 with a GPA of 7.5 out of 10.0;
  - Served as a teaching assistant for Python Programming;
  - Served as a teaching assistant for Object-Oriented Programming;
  - Volunteered as a junior enterprise web developer.
- **Visiting Student in Electronic Engineering @ TCD, Ireland**  
Sep 2013 — May 2014
  - Awarded the Brazilian Federal Government's "Science without Borders" (SwB) scholarship;
  - Served as a full-term visiting student, earning 60 ECTS with honors;
  - Received a Special Prize for the Best Product Branding Video at the Trinity Engineering Student Entrepreneurs of the Year Competition in 2014.
- **Professional Training in Computer Hardware and Network Maintenance @ Microlins, Brazil**  
Mar 2007 — Sep 2007

- Six-month professional training program in computer hardware, operating systems, and computer networks.