

# Eduardo Vasconcelos

## Application Security Engineer



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### Key Highlights

- 8+ years of experience in the software industry with emphasis on Application Security;
- Software Engineering postgraduate researcher awarded for national-level excellence in 2024;
- Computer Engineering graduate awarded for university-level excellence 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	Threat Modeling	Research & Development
	Security Engineering	
	Penetration Testing	
	Vulnerability Assessment	
	Security Code Review	
Intermediate	Security Awareness	Full Stack Development
	Reverse Engineering	
	Cryptography	
Familiar	DevSecOps	Machine Learning
	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

- **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.

- **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 — Present

- 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.