DiogoPina

Full-Stack Software Engineering

Contact

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Languages

english (advanced)
portuguese (native)
spanish (basic)

Programming

♥PHP 7 and PHP 5
*Zend Framework
*Symfony
*Laravel
HTML5 & CSS3 & JS
Angular, React

Others

Ionic, React Native
Python, Java, C/C++,
Wordpress

Database

MySQL, MariaDB,
PostgreSQL,
MongoDB,
Firebase

Knowledge

Agile: XP, Scrum,
Kanban, Lean
Machine Learning
DevOps
Continuous Integration
Continuous Delivering

Summary

I am a remote full-stack software engineering specialist in web development and I have over 10 years of experience in software development using PHP, HTML, CSS, and Javascript. Besides that, I have database servers, GIT, and a mobile development background. I have knowledge and experience in project management in technology using Agile, such as XP, Scrum, Kanban, and Lean.

I am also a Ph.D. Candidate in Computer Science at the University of São Paulo. My research is in the area of software engineering and focuses on technical debt prioritization. The main goal is to develop context-adaptive methods using machine learning approaches to prioritize the payment of technical debt items in real software projects.

Education

2021 (expected) **Ph.D.** in Computer Science — Prioritizing Technical Debt
São Paulo University, Institute of Mathematics and Statistics (IME-USP)

2014-2016 **MSc in Computer Science** — Measuring Technical Debt
São Paulo University, Institute of Mathematics and Statistics (IME-USP)

2009-2013 **Bachelors in Computer Science** — Technical Debt Overview
São Paulo University, Institute of Mathematics and Statistics (IME-USP)

Professional Experience

Since 01-2014 **Remote Full-Stack Software Engineering** — Consultant and remote full-stack software engineering
Full-stack development.

07-2009/12-2013 **Agência Weber** — Co-founder and CTO. Software development leader.
Software development leader.

01-2007/07-2009 **Inglês 200 horas** — Full-Stack Web Developer
Development of interactive e-learning platform to English courses.

01-2006/01-2007 **PWI** — Computer Technician
Technical support on Linux servers and development of maintenance scripts.

Academic Experience

since 2019 **Visiting Researcher** Prioritizing Technical Debt
University of Maryland, Baltimore County (UMBC), Department of Information Systems

01-2019/02-2019 **Teacher of Summer Course** IME-USP
Introduction to Web Systems Development with PHP

08-2018/12-2018 **Professor Internship** IME-USP
Extreme Programming Laboratory Course

08-2017/12-2017 **Professor Internship** IME-USP
Extreme Programming Laboratory Course

02-2017/07-2017 **Professor Internship** IME-USP
Mobile Computing Course

08-2015/12-2015 **Professor Internship** IME-USP
Extreme Programming Laboratory Course

02-2015/07-2015 **Professor Internship** IME-USP
Mobile Computing Course

08-2014/12-2014 **Professor Internship** IME-USP
Programming Laboratory II Course

Publications

Since 2018 **Prioritizing Technical Debt - An Machine Learning Approach** Work in Progress
A case study on Apache projects to develop and evaluate the accuracy of a technical debt prioritization method based on machine learning approach.

Since 2018 **A Mapping Study on Prioritizing Technical Debt** Work in Progress
A systematic mapping study was performed to identify and analyze the main papers on technical debt prioritization, covering the main computer science bases, such as ACM DL, IEEE Xplore, Science Direct, Scopus, Springer Link and Web of Science.

05-2017 **Effects of Technical Debt Awareness: A Classroom Study** International Conference on Agile Software Development
Technical Debt is a metaphor that has, in recent years, helped developers to think about and to monitor software quality. The metaphor refers to flaws in software that may affect future maintenance and evolution. We conducted an empirical study in an academic environment, with nine teams of graduate and undergraduate students during two offerings of a laboratory course on Extreme Programming - XP Lab. The teams had a comprehensive lecture about several alternative ways to identify and manage Technical Debt. We monitored the teams, performed interviews, did close observations and collected feedback. The results show that the awareness of Technical Debt influences team behavior. Team members report thinking and discussing more about software quality after becoming aware of Technical Debt in their projects.