

DiogoPina

Full-Stack Software Engineer

Contact

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Languages

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

Programming

♥NodeJS
♥React
TypeScript
PHP
HTML & CSS
Others
React Native
Python
Angular
Java, C/C++
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 engineer specialist in web development and I have over 10 years of experience in software development using Javascript stack (NodeJS + React) and PHP. 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 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

2023 (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 09-2020	iRemedy	Development of an e-commerce platform and automation process using NodeJS and React. <i>Full-Stack</i>
Since 01-2014	Remote Software Engineer	Consultant and remote full-stack software engineer <i>Full-Stack</i>
07-2009/12-2013	Agência Weber	Co-founder and CTO. Software development leader. <i>Software development leader.</i>
01-2007/07-2009	Inglês 200 horas	Full-Stack Web Developer <i>Development of interactive e-learning platform to English courses.</i>
01-2006/01-2007	PWI	Computer Technician <i>Technical support on Linux servers and development of maintenance scripts.</i>

Academic Experience

since 2019	Visiting Researcher University of Maryland, Baltimore County (UMBC), Department of Information Systems	Prioritizing Technical Debt
01-2019/02-2019	Teacher of Summer Course Introduction to Web Systems Development with PHP	IME-USP
08-2018/12-2018	Professor Internship Extreme Programming Laboratory Course	IME-USP
08-2017/12-2017	Professor Internship Extreme Programming Laboratory Course	IME-USP
02-2017/07-2017	Professor Internship Mobile Computing Course	IME-USP
08-2015/12-2015	Professor Internship Extreme Programming Laboratory Course	IME-USP
02-2015/07-2015	Professor Internship Mobile Computing Course	IME-USP
08-2014/12-2014	Professor Internship Programming Laboratory II Course	IME-USP

Publications

Since 2018	Prioritizing Technical Debt - An Machine Learning Approach Progress A case study on Apache projects to develop and evaluate the accuracy of a technical debt prioritization method based on machine learning approach.	Work in Progress
Since 2018	A Mapping Study on Prioritizing Technical Debt 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.	Work in Progress
05-2017	Effects of Technical Debt Awareness: A Classroom Study 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.	International