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DOUGLAS MENDES BARRETO

Senior Software Engineer Manager

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Professional Summary

With 14 years in software engineering, I've worked across the full stack, leading and mentoring teams that ship quality products. My focus is on delivering what clients actually need by collaborating closely with product and design and ruthlessly trimming down processes. This means practical agile, a strong focus on automation, and a culture of high quality.

I stay hands-on by architecting systems, managing migrations, and consulting. This keeps my skills sharp and helps me understand my team's challenges.

My goal is simple: build high-performing teams and scalable solutions that actually work.

Management Skills

- Expert in Scrum and Kanban methodologies, fostering collaborative and high-performing teams.
- Proven track record of mentoring engineers, leading technical teams, and developing talent from junior to senior levels.
- Experienced in collaborating with product managers, designers, and cross-functional teams to deliver robust solutions.
- Led client engagements and delivered solutions across multiple organizations as a technical consultant.
- Successfully managed complex migration projects, full game development lifecycles, and multi-client deliverables.
- Established development processes using JIRA/Github Projects, implemented CI/CD pipelines, and promoted TDD/BDD practices across teams.
- Skilled in managing client relationships, defining requirements, and aligning technical solutions with business objectives.
- Delivered technical talks and presentations to engineering teams on best practices in coding, testing, and QA implementation.

Tech Skills

- Technology Polyglot Knowledgeable in a wide range of programming languages and frameworks, including Python, JavaScript/TypeScript, Go, C++, C#, Ruby, Swift, Objective-C, and ++.
 - GraphQL, Restful APIs, Microservices Architecture, Event-Driven Systems.
 - Node JS, Next.js, React Native, Native iOS/Android Development.
 - Docker, Kubernetes, CI/CD Pipelines (Jenkins, GitHub Actions).
 - MySQL, PostgreSQL, MongoDB, Redis.
 - Automation, Testing (Unit, Integration, E2E), TDD/BDD.
 - Design Patterns, SOLID Principles, Agile Methodologies (Scrum, Kanban).
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Professional Experience

Senior Software Engineering Manager

Xpertsea - Predictive shrimp biomass control with AI delivering sustainable aquaculture solutions

51 - 100 employees

Quebec, Canada

2020-10 - Present

- Led a 9-engineer team in the development and scaling of complex applications.
 - Spearheaded a full-stack migration from AWS to Google Cloud, achieving an **20%** reduction in infrastructure costs.
 - Led and directly contributed to a full platform re-architecture, improving developer experience (DX) and user engagement (UX) to successfully drive the company to product-market fit.
 - Introduced trunk-based development to the team, reducing gitflow overhead and significantly improving feature lead time.
 - Pioneered a new 1:1 methodology that leveraged AI-powered summaries to create a searchable, data-driven history of discussions, goals, and team progress.
 - Led and directly contributed to the re-architecture of all CI/CD pipelines (frontend, backend, testing), cutting total build and deploy time from 50 minutes to **7 minutes**.
 - Increased team productivity by **550%** by optimizing development processes, cutting the average feature lead time from 13 weeks to 2 weeks.
 - Boosted team efficiency by implementing Kanban, leading to a **20%** reduction in planning time and a more simplified, continuous development flow.
 - Designed and implemented a collaborative workflow to bridge the gap between engineering and product, which minimized communication friction and cut down on unnecessary meetings.
 - Oversaw the successful launch of 6 major projects.
 - Introduced new engineering standards that improved code quality, reduced bug rates by **23%**, and streamlined team async communication.
 - Managed all people functions, including performance reviews, mentorship, and conflict resolution.
 - Actively participated in development cycles, contributing code to backend services (Python, JS/TypeScript) and frontend Next.js applications to accelerate key initiatives.
 - Architected and built a cross-platform Computer Vision framework in C++ to unify high-performance image and video processing for native iOS and Android.
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Senior iOS Developer

Social.mom - Social Media for mothers focused on delivering a safe and supportive environment

11 - 20 employees

Oct 2019 – Oct 2020

- Engineered and maintained a high-traffic iOS application, driving the migration of key features from Objective-C to Swift.
 - Led a major re-architecture of the native codebase, cutting maintenance overhead and new feature development time by **20%**.
 - Authored automation scripts that eliminated hundreds of hours of manual, repetitive tasks for the development team.
 - Established a formal testing culture by introducing end-to-end (E2E) and unit testing, significantly improving application reliability.
 - Mentored engineers on software design, promoting the adoption of SOLID principles and modern design patterns.
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Senior Software Engineer

Levio - Tech Consulting

1K - 5K employees

Jul 2018 - 2019 Oct

- Engineered and maintained scalable, high-availability backend services for multiple clients using .NET C#.
 - Executed complex legacy modernization projects, successfully migrating critical client systems from COBOL to modern .NET platforms.
 - Led a project to migrate customers from legacy version control systems to Git, modernizing their source code management practices.
 - Acted as a key technical consultant, collaborating with cross-functional teams to define requirements and deliver robust solutions.
 - Contributed to the optimization and automation of continuous integration (CI) pipelines to improve build and deployment efficiency.
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Senior Mobile Engineer

Concrete Solutions - Tech Consulting

10K+ - employees

Jul 2015 – Aug 2018

- Progressed from Developer to Senior Engineer, leading the architecture and development of native mobile applications for multiple clients.
- Developed 3 mobile banking applications and 4 e-commerce apps, delivering high-quality financial and retail solutions.
- Architected and developed a "white-label" e-commerce mobile platform, enabling the rapid deployment of customized storefronts from a single codebase.
- Delivered multiple technical talks to engineering teams on best practices in coding, testing, and QA implementation.

- Designed and implemented robust CI/CD pipelines (Jenkins, Bitrise, TravisCI) and promoted TDD/BDD practices (XCTest, Kif).
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Lead Game Programmer

Editora Globo - Publisher and developer of digital entertainment products

500 - 1k employees

Aug 2010 - Apr 2015

- Progressed from Game Programmer to Lead, managing the full game development lifecycle, product concepting, and team leadership.
 - Led the end-to-end development of cross-platform games (iOS, Android, Windows) using C# and Unity3D.
 - Architected and built critical backend services for MMO games, including login systems and room controllers, using SmartFoxServer (Java/MySQL).
 - Designed and developed a reusable Unity3D framework and custom engine tools, significantly increasing team productivity.
 - Implemented JIRA to establish and manage the team's development process.
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Junior Analyst Programmer

People Way - Tech Consulting

11 - 50 employees

Apr 2009 – Feb 2010

- Developed and maintained enterprise web applications using the J2EE stack (JSP, JSF) and SOAP web services.
 - Managed the client data lifecycle, including database design (MySQL) and building custom reports with JasperReport.
 - Engineered data parsing scripts to process and manipulate diverse formats (SMS, XML, CSV).
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Education

Universidade Anhembi Morumbi

Bachelor Degree in Game Design and Development - 2010

Languages

- Portuguese: Native
- English: Fluent
- French: Professional Working Proficiency

Main Projects

Kampi (Xpertsea)

Intelligent copilot for shrimp farmers using AI and computer vision to replace manual guesswork with data-driven insights. Features three pillars: Pond Vision for biometric monitoring via smartphone photos, Optima for predictive analytics and growth forecasting, and FarmBook for team coordination across the production chain.

Role: Senior Software Engineering Manager

Company: Xpertsea

Tech Stack: Python, TypeScript/JS, MongoDB, MySQL, NodeJS, Bun, NextJS, Google Cloud, Terraform, Ansible, C++, Android, iOS, React Native + Native Development

Time: Oct 2021 – Present

Link: <https://bekampi.com/>

- Led cross-functional team in development of AI-powered platform with three product pillars
- Architected technical strategy for predictive analytics and computer vision systems
- Managed technical roadmap for omnichannel platform supporting iOS, iPadOS, and web
- Directed infrastructure modernization using Google Cloud, Terraform, and Ansible

Social.Mom

Social network platform designed to counter social isolation during motherhood and reinforce the social safety net of families. Enables mothers to connect locally, plan activities, and access community groups and organizations in their area through a bilingual interface.

Role: Senior Native iOS Developer

Tech Stack: iOS native, Android native, Java Springboot, React

Time: Oct 2019 – Aug 2021

Link: <https://social.mom/en>

- Engineered and maintained high-traffic iOS application with bilingual support (English/French)
- Led major re-architecture reducing maintenance overhead and new feature development time by 20%
- Established formal testing culture with E2E and unit testing for improved application reliability

Meu Carrefour

All-in-one retail companion and cornerstone of Carrefour Brazil's omnichannel strategy, empowering millions of users to manage loyalty rewards, shop for groceries online, and streamline in-store visits through smart utility tools like barcode scanning and proximity services.

Role: Senior iOS Developer

Tech Stack: iOS native

Time: Feb 2016 – Jun 2016

- Developed comprehensive mobile shopping experience with barcode scanner and store locator
- Implemented loyalty program integration with "Purple Label" discounts and cashback tracking
- Built shopping list management system with cross-platform synchronization

Itaú Unibanco Mobile Banking

Mobile banking application for one of Brazil's largest financial institutions, providing users with secure access to core banking services including account management and financial transactions.

Role: Windows Phone and iOS Developer

Tech Stack: Windows Phone, iOS, .NET

Time: July 2015 – Jan 2016

- Implemented login with CPF for secure user authentication
- Developed account statement functionality for transaction history access
- Built transfers and payments features for core banking operations

Mundo do Sítio

Persistent, multi-user virtual world designed to integrate pedagogical goals with immersive gameplay as a digital extension of the Sítio do Picapau Amarelo IP. Featured complex economy, social interactions, and library of educational mini-games for millions of Brazilian students.

Role: Lead Game Programmer / Full Stack

Tech Stack: Unity 3D, Flash ActionScript (SWC), Java, SmartFox Server, HTML5/JS

Time: Aug 2010 – Apr 2015

- Engineered full-stack architecture handling high-concurrency traffic with low-latency communication
- Developed interactive gameplay mechanics and real-time state synchronization for 30+ educational mini-games
- Implemented secure authentication, profile registration, and parental control features for children's platform