Afonso Jorge

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PROFILE

As both a software engineer and computer scientist, I offer a unique combination of skills and experience - I have a deep understanding of software engineering principles and a strong track record of designing and implementing relatively complex software systems. My core skills equally extend to computer science, with a solid grounding in algorithms, data structures, and software design patterns.

I am an affable communicator, able to work with people from all walks of life, as I am proficient at explaining complex concepts to non-technical audiences. I find it very enjoyable to look for the best ways of transmitting stakeholders' ideas to the development team. In addition, I have experience in team management and leadership roles. Just as a computer program is only as effective as its code, I believe a company is only as effective as its people. Therefore, I am constantly thinking of
ways to improve the team development process and workflow.

KEY SKILLS

Programming Languages, *React, Typescript, HTML, CSS, React Native, Vue, Python, SQL, C, C++, Java,*

UI/UX Design and Development, *AdobeXD, Figma*

Mobile and Web development, *Full-Stack*

APIs expertise, *Next.js, Node.js, Postgres, GraphQL, REST, ThreeJS, Flask,*

Build Tools, *npm, Gradle, Maven, gcc ,gRPC,*

Database expertise, *Firebase, MongoDB Realm, PostgreSQL*

Testing Tools, *JMeter, JUnit, Groovy, Cypress*

Data Visualization and Organizational tools, *Enterprise Architect, Archi, Trello, Slack*

Fluency in English, Portuguese and communicational skills in Spanish

EXPERIENCE

Walk 4 Money start-up: Internship – June - September 2019, Lead programmer – 2021 - current
I was assigned the production of a prototype application based on the business model the company had created. As an interning junior programmer, I developed a serverless React native app with an intense focus on designing the application's architecture and overall flow.
After a year of interruption due to the pandemic, I was brought in as the lead software developer. I have since been responsible for the design, full-stack developmen and deployment of an MVP and a web app used to demonstrate the company business model. The MVP consists of a mobile application in both iOS and Android, built-in React Native using Typescript. I utilized Firebase and Realm integrated with MongoDB regarding the backend and database implementation. The web app is built on Next.js, also using Typescript.

Partial development of website functionalities QuizzesTutor – Backend and Frontend
As part of a 2-person team, I was responsible for implementing new features for the web app, specifically the ability to create exams with custom questions, ranging from multiple choice to essay-based ones. It is now being used as an online exam and test hosting platform for the university. For this project, I utilized Java, XML and Postgres as the primary backend languages, VueJs for the frontend, and Cypress, Groovy and JMeter for End-to-End and Unit testing.

Implementation of a fully functional Database
As part of a 3-person team, my colleagues and I created and deployed a SQL Database based on PL/pgSQL language. The project evolved from an entity-relationship model to the design and creation of the database and its schemas, ending with the implementation of a basic web app, developed with Flask and HTML, that allowed the user to interact with the medical application supported by the database.

OTHER EXPERIENCE

IST Management Challenge 2019/2020 - 1st Semestre – Placed 4th/380 – Top 5 Finalist

I managed a team of 6 people in a university-wide competition, consisting of a weekly management simulation of a company where the goal was to obtain the highest possible investment performance for said company. To do so, we analyzed the overall company history, formulated a corporate strategy for the quarter based on market changes along with all current company's assets and shareholders, and, lastly, interpreted the results and adapted based on our previous decisions. The challenge ran for five weeks, placing in the top 10. We qualified for the national phase of GMC and were given sponsorship by Konica Minolta.

Case-study on a major insurance provider – Fidelidade
During the first year of my bachelor's, I managed a group of 7 people whose objective was to produce a case study on the functions and importance of software engineers in a company, such as an insurance provider. The study encompassed interviews with the different employees, reviewing past company tendencies and decisions, and presenting possible solutions and optimizations to specific software and infrastructural problems the company was facing at the time.

Food Bank against Hunger (Banco Alimentar Contra a Fome) - Volunteering – 2012-2015-2017

EDUCATION

Instituto Superior Técnico - Computer Science and Engineering BSc, 2022

C1- Advance – formerly Certificate in Advance English (CAE) - 2018