

# ALEXANDRE AMARAL

Full Stack Developer ~ Data Analyst



[Portfolio](#)



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## SUMMARY

Full Stack Developer, freelancer, and Information Systems student with extensive experience in developing systems focused on process efficiency and automation. Skilled in creating robust and scalable solutions using a variety of languages and frameworks for both front-end and back-end. With experience in workflow system development for the Government of Minas Gerais, along with contributions to data analysis and AI projects, I aim to innovate continuously and bring analytical value and practicality to every project.

## SKILLS

**Programming Languages:** JavaScript, Python, Java, PHP, SQL, C#.

**Front-End Development:** HTML5, CSS3, ReactJS, NextJS, TailwindCSS, Bootstrap5.

**Frameworks and Libraries:** NodeJS, Laravel, Spring.

**Databases:** MySQL, PostgreSQL, MongoDB.

**Tools and Platforms:** Azure, AWS, Docker, Git, Linux.

**Other Competencies:** ETL Processes, Machine Learning, Data Analysis, Algorithms, and Data Structures.

## FULL STACK DEVELOPER AND DATA ANALYST

2023 – 2024	<b>Full Stack Developer and Data Analyst</b>	<b>SEGOV - Minas Gerais State Government</b>
	<ul style="list-style-type: none"><li>Development and management of a document processing system, in Laravel and MySQL, optimizing workflows.</li><li>Implemented ETL processes for data collection and analysis, generating strategic reports for decision-making.</li></ul>	
2023 – 2024	<b>Junior Researcher/ AI Developer</b>	<b>PUC Minas / SOLIRIS</b>
	<ul style="list-style-type: none"><li>Developed an automated resume analysis tool using NLP and Machine Learning, streamlining recruitment screening processes.</li><li>Implemented web scraping algorithms, data processing, database optimization with indexing, API development, and detailed technical documentation.</li></ul>	
2022 – 2023	<b>Full Stack Python, AI and Machine Learning Developer</b>	<b>Software Project with UFMG University</b>
	<ul style="list-style-type: none"><li>Developed a toxicology calculation tool, implementing data extraction and mining algorithms to support pharmacology research.</li><li>Created APIs with Flask and FastAPI and user interfaces, enhancing the tool's accessibility and usability.</li></ul>	
2021 – Present	<b>Freelancer</b>	<b>Independent Projects</b>
	<ul style="list-style-type: none"><li>Developed, deployed, and maintained web applications for clients, with a focus on responsiveness, SEO, and optimization.</li></ul>	
2021 – 2022	<b>Web Developer</b>	<b>Paiva Piovesan</b>
	<ul style="list-style-type: none"><li>Developed a financial platform using .NET, C#, HTML, and CSS, enhancing user interface and experience.</li><li>Collaborated on usability improvements, resulting in a more intuitive user interaction.</li></ul>	
2020 – 2021	<b>IT Intern</b>	<b>City Hall of Belo Horizonte</b>
	<ul style="list-style-type: none"><li>Maintained and updated the City Hall's e-learning platform, focusing on improvements and bug fixes.</li><li>Transformed platform data into strategic insights supporting management.</li></ul>	

## EDUCATION

2022 - Present	<b>Bachelor's in Information Systems</b>	<b>PUC Minas</b>
2018 - 2019	<b>Exchange Program</b>	<b>Mankato East High School, USA</b>
	Gained international experience, achieving English fluency and exposure to diverse cultures.	

## LANGUAGES

**English** - Fluent