

ALEXANDRE AMARAL

Software Engineer

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[Portfolio](#)

[GitHub](#)

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SUMMARY

I am a Software Engineer specialized in *Back-End*, with strong experience in *Front-End*. I work on creating robust and scalable solutions, from planning and architecture definition to implementation, testing, and deployment. I build and maintain APIs, integrate databases, and automate processes using a variety of languages, frameworks, technologies, and tools.

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.

PROFESSIONAL EXPERIENCE

12/2024 – Present	Back-End Engineer	Viacapital
<ul style="list-style-type: none">• Development and maintenance of Python-based APIs with <i>FastAPI</i>.• Database management and implementations in MS SQL Server.• Automation of routines using Python and stored procedures in the database.• Development of User Interface (UI) with <i>React</i> and <i>NextJS</i>, including API integration, authentication, and permission management.		
10/2023 – 11/2024	Full Stack Software Engineer	SEGOV - Government of Minas Gerais
<ul style="list-style-type: none">• Development and management of a document workflow system using <i>Laravel</i> and <i>MySQL</i>, optimizing work processes and reducing processing times.• Implementation of ETL processes for data collection and analysis, generating strategic reports for decision-making.• Development of new features for internal and external portals, using <i>JavaScript</i>, <i>Python</i>, <i>PHP</i>, <i>HTML</i>, and <i>CSS</i>.		
10/2023 – 08/2024	Junior Researcher / Artificial Intelligence (AI) Developer	PUC Minas / SOLIRIS
<ul style="list-style-type: none">• Development of an automated résumé analysis tool using <i>Natural Language Processing (NLP)</i> and <i>Machine Learning</i>, streamlining the HR screening process.• Implementation of web scraping algorithms, data processing, database optimization with indexing, API development, and detailed technical documentation.		
02/2022 – 10/2023	Full Stack Python Engineer, AI and Machine Learning Toxicological Startup	Federal University of Minas Gerais (UFMG) – Health Tech
<ul style="list-style-type: none">• Development of a toxicological calculator, implementing data extraction and mining algorithms to support pharmacology research.• Creation of APIs with <i>Flask</i> and <i>FastAPI</i>, and user interfaces, improving the tool's accessibility and usability.• Coordinated a cross-functional team, overseeing project planning, code reviews, and ensuring timely deliverables.		
09/2021 – Present	Freelancer	Independent Projects
<ul style="list-style-type: none">• Development, deployment, and maintenance of web applications for clients, focusing on responsiveness, <i>SEO</i>, and boosting engagement.		

03/2021 – 09/2022	Web Developer	Paiva Piovesan
	<ul style="list-style-type: none">• Development of a financial platform using <i>Microsoft .NET</i>, C#, HTML, and CSS, enhancing the interface and user experience.• Collaborated on usability improvements resulting in more intuitive user interactions.	
10/2020 – 03/2021	IT Intern	City Hall of Belo Horizonte
	<ul style="list-style-type: none">• Maintenance and updates for the city's Distance Learning (EAD) platform, focusing on improvements and bug fixes.• Data transformation for strategic and management support insights from the platform.	

EDUCATION

2022 - Present	Bachelor's in Information Systems	PUC Minas
2018 - 2019	Exchange Program	Mankato East High School, USA
	International experience that provided English fluency and exposure to different cultures.	

LANGUAGES

English - Fluent | **Portuguese** - Native