Murilo Arruda

Software Engineer Specialist

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Summary

Software Engineer with a strong track record in leading full-cycle web development, from architecture design to deployment. Experienced in managing development teams, making critical technical decisions, and delivering scalable solutions under tight deadlines. Skilled in modern web technologies, cloud infrastructure, and AI integration. Known for a hands-on, problem-solving mindset and the ability to collaborate effectively across disciplines to drive results.

Experience

DEEP ESG   **January 2021 to Present**

Software Engineer Specialist   São José dos Campos, SP, Brazil

🔗 https://deepesg.com/

- Led the end-to-end development of a full-stack web application, from initial concept to production deployment.
- Manage and mentor a cross-functional team of developers, ensuring high code quality and delivery cadence.
- Responsible for defining the system architecture, including database design, service boundaries, and scalability strategies.
- Drive technical decision-making, code reviews, and adoption of best practices in software engineering.
- Coordinate with product and design teams to translate business requirements into technical solutions.

Projects

Agricultural Product Traceability System   **2019 – 2020**

- Designed and developed a web-based system to help small and medium-sized farmers comply with government traceability regulations.
- Enabled producers to register and monitor agricultural batches (e.g., tomato lots), track their origin, and generate compliance reports.
- Focused on usability for low-tech users and scalability for different crop types and farm sizes.
- The solution simplified regulatory compliance, reduced manual errors, and improved transparency across the production chain.

Education

FAETERJ   **June 2013 to December 2016**

Petrópolis, RJ   Bachelor of Technology in Information and Communication

Completed full coursework.

Skills

Web Technologies

Experienced in building scalable web applications using modern JavaScript frameworks, component-based architecture, and clean code practices.

JavaScript, Python, Typescript, Vue, React, Nest, Next, Nuxt

AI Technologies

Applied AI skills in real-world projects, including prompt engineering, LLM integration, and retrieval-augmented generation using tools like OpenAI, LangChain, and vector databases.

RAG, Prompt Engineering, LangChain, LLM Agents

Infrastructure & DevOps

Hands-on experience with cloud infrastructure, containerization, CI/CD pipelines, and monitoring tools across GCP, AWS, Docker, and Kubernetes ecosystems.

Docker, Kubernetes, Github Actions, ArgoCD, Google Cloud Platform, AWS, Firebase, Sentry