Lucas Medeiros

Software Engineer

medeiroslucas.dev@gmail.com | +55 82 991419449 | Brazil

[LinkedIn](#) | [GitHub](#) | [lucasdemedeiros.com](#)

PROFESSIONAL SUMMARY

I am a Software Engineer with over 6 years of experience, delivering efficient, secure, and maintainable solutions. My main focus is on developing RESTful APIs, back-end systems, and AI-powered conversational agents.

I currently build AI conversational agents for a Brazilian fintech, working extensively with LLMs (Claude, OpenAI), prompt engineering, and agent orchestration. I also have hands-on experience with CI/CD pipelines, containerization, and AWS infrastructure for high-availability applications.

I am looking for remote opportunities with international teams, ready to tackle challenges and deliver high-impact results.

TOP SKILLS

AI & LLMs: Claude API, OpenAI, Prompt Engineering, Conversational AI, Agent Orchestration

Python & Frameworks: Django, Flask, FastAPI (RESTful APIs, Microservices)

DevOps & CI/CD: Docker, Kubernetes, GitHub Actions, Jenkins

Cloud: AWS (EC2, S3, RDS, ECS)

Databases: PostgreSQL, MySQL, MongoDB, Redis, PostGIS, Supabase

Async Processing: Celery, Kafka, RabbitMQ

Frontend: JavaScript, Vue.js, AngularJS, jQuery, Next.js (basic)

Agile: Scrum, Kanban, Jira, Confluence

PROFESSIONAL EXPERIENCE

MEUTUDO | BACK END DEVELOPER   *May 2025 – Present*

Building AI-powered conversational agents for a Brazilian fintech platform, leveraging LLMs and agent orchestration patterns for WhatsApp-based customer interactions.

- • Designed and built conversational AI agents for WhatsApp, automating customer service flows and improving response quality.
- • Worked extensively with Claude API and prompt engineering techniques to build reliable, context-aware agent behaviors.
- • Integrated AI agents with internal systems via FastAPI, ensuring real-time data access and seamless user experiences.
- • Collaborated with product and data teams to iterate on agent performance using feedback loops and analytics.

Skills: Python, FastAPI, Claude API, LLMs, Prompt Engineering, Agent Orchestration, Supabase, Docker

MAZZATECH (AUTODOC) | BACK-END DEVELOPER   *October 2024 – Present*

Back-end Developer at a tech company focused on construction industry solutions, working in application maintenance and optimization, ensuring system stability and performance.

- • Technical owner of 2 systems, responsible for maintenance, bug fixes, and incremental improvements.
- • Endpoint optimization and performance tuning: revamped user endpoints with caching and pagination, reducing response payload size by over 50%.
- • Applied SOLID principles for clean code practices and reusable solutions.
- • Created comprehensive technical documentation to foster team alignment and accelerate onboarding.

Skills: Python, Flask, Django, AWS (EC2, S3, RDS, ECS), Docker, Kubernetes, PostgreSQL, GitHub Actions

VERX (SERASA) | BACK-END DEVELOPER   *August 2023 – September 2024*

Contributed to an innovative carbon footprint platform empowering farmers to measure and reduce their environmental impact.

- • Developed Python-based back-end solutions, integrating Celery for asynchronous tasks and Pandas for data analysis.
- • Managed geospatial data with PostGIS, enabling precise environmental calculations and reporting.

- Applied Test-Driven Development (TDD) to ensure high code reliability and reduce production issues.
- Deployed applications using Docker for consistent environments and efficient CI/CD workflows.
- Integrated third-party APIs and tools to enhance platform functionality and data insights.

Skills: Python, Django REST Framework, Celery, PostGIS, Docker, RabbitMQ, TDD

JOIN TECNOLOGIA | FULL-STACK DEVELOPER   *May 2022 – April 2023*

Core team on a real-time weather data platform serving agriculture, aviation, and government sectors.

- Developed Python/Django features for weather data processing, integrating PostGIS and improving location-based accuracy by 30%.
- Collaborated on RESTful API integrations handling 50K+ daily requests, optimizing PostgreSQL queries to reduce latency by 25%.
- Enhanced frontend components (JavaScript/jQuery) alongside UX designers, decreasing page load times.
- Applied SOLID principles to refactor legacy code, increasing maintainability.

Skills: Python, Django, PostgreSQL, JavaScript, jQuery, PostGIS

DETRAN ALAGOAS | FULL-STACK DEVELOPER   *January 2020 – April 2023*

Maintained and enhanced the official state DMV website and led the complete development of a secure intranet system.

- Led development of a secure intranet system from architecture design and database modeling to Docker containerization and deployment.
- Achieved 30% faster load times through strategic caching and code optimizations, translating to 20% increase in user satisfaction.
- Built CI/CD pipelines with Jenkins to streamline deployments.
- Worked with Python, Django, PostgreSQL, RabbitMQ, Celery, and Docker across the full stack.
- Started as intern (Jan 2020), transitioned to full-time developer (Jan 2022).

EDUCATION

Centro Universitário Cesmac — Bachelor's in Systems Analysis and Development
February 2019 – March 2023