Júlio **Guedes**

SOFTWARE ENGINEER | COMPUTER SCIENCE M.SC. CANDIDATE

+55 83 99655-2372 | ✉ juliobguedes@gmail.com | ⌂ juliobguedes.dev | ⌂ juliobguedes | in juliobguedes

A results-driven Software Engineer specializing in reliability and distributed systems. My experience is centered on the construction, maintenance, and optimization of critical infrastructure to ensure high performance and reliability on a scale. I have led a number of key initiatives, including improving platform observability, modernizing core infrastructure, and driving significant cost reductions. As an experienced Incident Lead, I am adept at diagnosing and resolving complex issues under pressure, while also proactively identifying and mitigating future risks.

Experience

VTEX 🔗

SOFTWARE ENGINEER II

Present
August 2024

As a Software Engineer on the IO Apps team, I developed and maintained critical infrastructure applications to ensure platform resilience and optimize operational efficiency, especially during high-traffic events such as Black Friday.

- Drove infrastructure modernization and cost optimization by leading a zero-downtime migration of Redis clusters, resulting in $71,000 in estimated annual savings and enhanced reliability through IaC (Infrastructure as Code) adoption.
- Led critical Black Friday readiness initiatives, leveraging data analysis to forecast traffic and scale applications, which contributed to a 100% SLA and a $70,000 reduction in operational costs compared to the previous year.

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SOFTWARE ENGINEER

July 2024
May 2022

I joined the team as a part-time Data Scientist and transitioned to a full-time, full-stack Software Engineer position. On the Feeds and Watcher teams, I was responsible for the end-to-end development of custom and personalized user feeds, building a low-latency and highly reliable platform to ensure a seamless user experience.

- Enhanced system observability for developers and stakeholders, enabling them to analyze feature usage by implementing and integrating in-app metrics with contextual dashboards.
- Researched and implemented solutions for content personalization, from information retrieval to machine learning models, also enhancing data processing pipelines to reduce over 70% of the execution time.

Dell EMC and Data Mining Laboratory

RESEARCH TEAM LEADER

February 2022
October 2019

After a successful Data Science internship, I was promoted to Team Leader and led the effort to research and develop solutions to improve customer service efficiency and outcomes.

- Managed and mentored a team of three students in the development of data-driven solutions, leading the research and implementation from conception to delivery.
- Engineered and deployed real-time Machine Learning models within a microservice-based environment to provide immediate, actionable insights for customer service.

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SOFTWARE ENGINEER INTERN

May 2019
June 2018

Implemented new features in a large-scale web system for law enforcement activities. Improved developers' experience and Software Engineering settings by refactoring the entire code base to follow a consistent style, facilitating code reviews and feature integration.

Education

Federal University of Campina Grande 🔗   *Campina Grande, Brazil*

B.SC. AND M.SC. CANDIDATE IN COMPUTER SCIENCE   *April 2024*

Undergraduate course focused on web development, data science, and machine Learning, with a special interest in Natural Language Processing and Recommender Systems. Followed up with a Master's research on performance and explicability improvement through Transfer Learning and Pre-training.

Skills

- Programming Languages: Python, Go, Dart, JavaScript, Java
- Web & Mobile Development Frameworks: Node.js, Flutter, React.js, Flask
- Data Science: Scikit-learn, Tensorflow, Pandas, R, PySpark, D3.js.
- Tools & Frameworks: Docker, Kubernetes, Terraform, Pulumi, GitHub/GitLab and Custom CI/CD, Custom A/B testing frameworks, AWS, GCP, Firebase.
- Native Portuguese speaker. TOEFL-ITP Certified Proficient in English (2022).