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EXPERIENCE

Software Engineer **Alura** **Jan 2024 – Present**

- Evaluated Language Models using LLMops tools and Prompt Engineering to optimize chatbot performance, contributing to an enhanced learning experience for the students.
- Implemented UI changes that improved student experience, also helping develop crucial product improvements.

Backend Engineer, Researcher **UFCG and Nubank** **Mar 2023 – Jan 2024**

- Implemented a secure file transfer API using Clojure and AWS (Multipart Upload/Download, EC2, S3,...).
- Utilized Terraform and Ansible for robust provisioning and harnessed CloudWatch, Prometheus and Grafana for monitoring.
- Implemented end-to-end cryptographic measures with the Web Crypto API in the React frontend.

Data Scientist, Intern **NeoPTO** **Dec 2022 – Feb 2023**

- Implemented efficient information retrieval techniques using MongoDB and Elasticsearch to retrieve millions of patents using embeddings generated from patent abstracts
- Utilized unsupervised learning techniques (KMeans, DBScan, HDBScan) for patent clustering and trend discovering.

Data Scientist, Researcher **LACINA, UFCG** **Jul 2021 - Dec 2022**

IPSearch (Apr 2022- Dec 2022)

- In partnership with NeoPTO, utilized clustering algorithms to cluster patents and find patent trends.
- Developed an API using FastAPI and BentoML to connect with the models created.
- Implemented similarity search methods using Elasticsearch's BM25 to retrieve similar patents.

OptInOut (Jul 2021, Apr 2022)

- Collaborated with Dell EMC to implement state-of-the-art NLP models (BERT, DistilBERT, DialoGPT) for chat classification using versatile tools such as Pandas, scikit-learn, and TensorFlow.
- Utilized Redis for background task processing and Docker for containerization.
- Used Topic Modeling techniques with LDA to discover topics among the chats in the dataset

PROJECTS

- **Booker (2023).** Booker is a web-based book lending system, accessible on both desktop and mobile that allows users to list their books for lending, write brief descriptions, and connect with potential borrowers. **Java SpringBoot, NextJS, PostgreSQL, Docker**
- **FilaFácil (2021).** FilaFácil was developed during the COVID-19 pandemic and provides users with queue numbers to track their vaccination wait times and estimated appointment times conveniently on their smartphones to avoid crowds. **Java SpringBoot, React**

SKILLS

- Python, Clojure, Java (Spring Stack), Javascript, JSP, LLMs, Docker, Functional Programming, Software Architecture, PostgreSQL, Terraform, Ansible, MongoDB, Git, GitHub, Elasticsearch, AWS, NLP, AI, Blockchain
- Leadership, Proactivity, Communication

EDUCATION

Campina Grande, PB **Federal University of Campina Grande (UFCG)** **Mar 2019 - May 2024**

- **BSc. in Computer Science.** GPA: 9.4/10.
- Undergraduate Coursework: Software Engineering, Database, Algorithms, Software Architecture, Data Structures, Descriptive and Predictive Data Science, Information Retrieval, AI.
- **Teaching Assistant:** Database, Programming II