Pedro Gabriel Amorim Soares

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Professional Experience

Software Engineer Intern, Google – Belo Horizonte, Brazil   Sept 2025 – Present

Software Engineer, Vulcanet – Remote (Campinas, SP)   Aug 2021 – Nov 2022
- Refactored microservices architecture in Python and TypeScript using DDD and CQRS patterns, improving system scalability and response times across client deployments
- Implemented asynchronous SQLAlchemy ORM and GraphQL API layers for event-driven data processing
- Built a Python templating library to generate parameterized Docker configurations, enabling rapid custom deployments and reducing operational overhead for new clients
- Optimized Grafana dashboard queries by refactoring SQL code, reducing query execution times by over 50%

Applied Research Intern, Dep. of Computer Science, UFMG   Mar 2021 – Aug 2021
- Implemented and optimized graph pattern mining algorithms in Python and C++ on a massive dataset of hundreds of thousands of public auction data points from the Public Ministry of Minas Gerais; tackling the NP-hard challenge posed by max-clique computations
- Contributed to the design and deployment of scalable data ingestion pipelines and visualization infrastructure using Python, Plotly, Docker, MySQL, PySpark, and NoSQL stacks

Research Assistant, Dep. of Computer Science, UFMG   Mar 2021 – Aug 2021
- Developed evolutionary heuristic (ant-colony) algorithms in Python and C++ for mining survival models in large-scale medical databases, such as Brazil's public COVID-19 dataset comprising millions of patient records
- Contributed to Google's Latin America Research Awards (LARA)-winning project on COVID-19 data mining, which was presented at BRACIS and published by Springer

Research Assistant, Faculty of Economic Sciences, UFMG   Jan 2020 – Dec 2020
- Developed machine learning models in Python (scikit-learn, Keras, TensorFlow, DEAP) for insolvency prediction of Brazilian health insurance providers from multi-year financial statements of hundreds of companies, using genetic algorithms for feature selection and pruning, achieving accuracy of over 86%

Machine Learning Research Intern, ENACOM   Mar 2020 – Sept 2020
- Migrated XGBoost failure prediction pipeline from Python to C++, optimizing inference speed for real-time industrial process monitoring

Research Intern, Czech Technical University – Prague   Jan 2020 – Feb 2020
- Awarded a two-month research scholarship by the Institute of Czech-Brazilian Academic Cooperation

Education

Pontifical Catholic University of Minas Gerais, BSc in Computer Science   Expected Dec 2025
- Average grade: 88% (approx. GPA 3.5/4.0)
- Exchange Program at Université Gustave Eiffel / ESIEE Paris (Fall 2024)
- Transferred from BSc in Computational Mathematics at Federal University of Minas Gerais in February, 2023

Skills

Programming Languages: C++, Golang, Python, Java, C#, C, Rust, TypeScript

Tools of the Trade: PostgreSQL, MySQL, MongoDB, Redis, Django, FastAPI, React, Angular, GraphQL, Docker, Kubernetes, CI/CD, PySpark, Microservices, Domain-Driven Design (DDD), CQRS, Machine Learning, Data Mining, A/B Testing, Load Testing, Event-Driven Architecture

Languages: English (C2 — TOEFL iBT 116/120), French (B1), German (A2), Portuguese (Native)