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

- Led a microservices refactoring project in Python and TypeScript, applying Domain-Driven Design (DDD) and CQRS for scalability while improving average query response times
- Designed and implemented SQLAlchemy and GraphQL abstractions for asynchronous processing in an event-driven architecture
- Developed and optimized CI/CD pipelines, Docker/Kubernetes deployments for multiple clients, and improved query performance for Grafana monitoring dashboards

Research Assistant, 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

- Optimization of machine learning models in Python and C++ for real-time industrial processes

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

PUC Minas, BSc in Computer Science — Expected Dec 2025

- Average grade: 88% (GPA 3.3/4.0)
- Exchange Program at Université Gustave Eiffel / ESIEE Paris (Fall 2024)
- Transferred from BSc in Computational Mathematics at UFMG

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, Web3

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