Bruno Vinicius Veronez de Jesus

Backend Engineer

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Summary

Backend engineer at Hablla, working in Go on data aggregation pipelines and third-party integrations over PostgreSQL, MongoDB, Redis and Firestore. Computer Science graduate from UNESP with published NLP research: a fine-tuned BERT model that set the best known result (0.94 F1) for rhetorical move detection in Portuguese.

Work Experience

Hablla Remote, Brazil
Backend Developer *Jan 2026 – Present*

- Build and maintain reporting systems and data aggregation pipelines in Go across four persistence layers: PostgreSQL/AlloyDB on Google Cloud, MongoDB, Redis and Firestore
- Own integrations with the Meta ecosystem (WhatsApp Cloud API, Facebook and Instagram), including OAuth flows and the message template system with versioning
- Design and implement REST APIs for customer-facing metrics, tuning Go concurrency so aggregated numbers stay correct under load

Hablla Remote, Brazil
Software Developer Intern (Support and Front-end) *Oct 2024 – Dec 2025*

- Built and maintained flow-builder components in React, TypeScript, Redux and Redux Saga for a conversational CRM platform
- Integrated third-party APIs into the platform's automation flows and helped plan and implement the interface for autonomous AI agents
- Spent the first 3 months on the support team resolving customer issues, mapping the platform's flows, APIs and integrations end to end
- Joined client meetings regularly, translating business rules between customers and the dev team; promoted to Backend Developer in Jan 2026

UNESP, Parallel and Distributed Systems Group (GSPD) São José do Rio Preto, Brazil
Undergraduate Researcher (CNPq scholarship) *Jan 2022 – Dec 2023*

- Led the redesign and reimplementation of the GUI of iSPD, a simulator of parallel and distributed systems, in C++ with Qt
- Published the results at ERAD-SP 2023, with focus on event handling and visualization of large volumes of simulation metrics

Education

UNESP – São Paulo State University Brazil
B.Sc. in Computer Science *Jan 2021 – Dec 2025*

Publications

- **Deep Learning for Rhetorical Move Detection.** STIL 2025, Brazilian Computer Society (SBC). DOI: 10.5753/stil.2025.37824
  Fine-tuned a distilled BERTimbau on 52 annotated abstracts expanded to 1,409 examples through a meaning-preserving augmentation pipeline; reached 0.94 F1 and 93.97% accuracy against a 72% prior baseline, the best known result for Portuguese
- **Graphical Interface for Exascale Systems Simulation.** ERAD-SP 2023. DOI: 10.5753/eradsp.2023.231910

Projects

- **Swales Scientific Writing** (swales.com.br): web app that runs a BERT model (ONNX) to give students real-time feedback on the rhetorical structure of scientific abstracts; React, TypeScript
- **Speech2Text**: desktop transcription app built around OpenAI Whisper with on-the-fly model switching; Python, PySide6, background threads keep the UI responsive

Skills

Programming languages: Go, TypeScript, JavaScript, Python, C, C++, Java, SQL
Backend and data: PostgreSQL, AlloyDB, MongoDB, Redis, Firestore, REST APIs, OAuth 2.0, Google Cloud
Front-end: React, Redux, Redux Saga, Next.js, Vite, Tailwind CSS
ML and NLP: PyTorch, TensorFlow, Hugging Face Transformers, BERT, ONNX

Languages

Portuguese (native), English (professional working proficiency)