

Hugo Folloni Guarilha

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Professional Summary

- Full-stack developer with 3+ years of experience building robust, scalable applications. Expertise in tackling complex data challenges using React, .NET, Python, and Docker to develop critical systems for educational platforms, government institutions, and leading technology companies.

Skills

- JavaScript | TypeScript | React | C# | .NET | Python | Django | Node | Express | Redux | NextJS | PostgreSQL | SQL Server | MongoDB | Git
- Frontend | Backend | Full-Stack | SQL | NoSQL | Docker | Scrum | Agile | English and Portuguese – Professional proficiency or above

Experience

Software Engineer Intern

BigDataCorp

Rio de Janeiro, Brazil

06/2024 - current

- Develops key features for internal administrative panels, building .NET APIs and responsive React components to enable critical data management and streamline workflows for internal users.
- Enhances the reliability of internal systems by creating new monitoring tools and shipping targeted back-end and front-end improvements to support daily administrative operations associated with the foundation of the company, Latin America's largest data technology company.
- Contributes to a major platform modernization effort by refactoring legacy code and migrating essential UI components to a more maintainable and efficient architecture

Scientific Research Fellow - ETL

COPPETEC

Rio de Janeiro, Brazil

06/2023 - current

- Contributed to a large-scale ETL pipeline of 40+ Talend jobs, personally designing new jobs to process and integrate critical data.
- Managed high-impact database operations, using PostgreSQL and SQL Server, including insertions and corrections in production environments of a major public institution, ensuring data integrity and operational reliability.
- Led the development of solutions for workspace sharing, creating a method to host the Talend application in Docker containers..

Scientific Research Fellow - Development

Machine Teaching

Rio de Janeiro, Brazil

02/2022 - current

- Led the development of a synchronous assessment module as a capstone thesis project, unifying the platforms evaluation cycle within a secure, time-controlled exam environment..
- Optimized user data dashboards by rewriting database queries, reducing load times by over 70% and significantly enhancing usability.
- Established a foundation for system reliability by automating new back-end and user interface tests.

Education

Bachelor of Science

Universidade Federal do Rio de Janeiro

Rio de Janeiro, Brazil

02/2021 - 11/2025

- Major in Computer Science (Top-ranked university in Brazil, recognized for excellence in Science and Engineering fields)

Projects

- **yze.bio:** A full-stack 'link-in-bio' creator with customizable layouts, built with React, C#, .NET, and PostgreSQL.
- **wedding-gifts:** A web app for wedding gift management, built with React and Node.js. Successfully used in a real wedding event in 2024.
- **spotify-multiverse:** A music discovery app that generates personalized recommendations by applying math to playlist attributes.

Freelancer

- **Instituto de Proteção ao Jogador:** Developed the complete system for a psychological project aimed at helping individuals with gambling addiction, in partnership with Brazilian betting companies.
- **Bracell — Floresta Sempre Viva:** Developed an interactive website for an environmental project, in association with a major company.

Publications & Presentations

- **Co-author** — Revista Brasileira de Informática na Educação (RBIE), 2025: "Technical and Tactical Factors of an Educational Platform for a Large Number of Students".
- **Presenter** — Semana de Integração Acadêmica (SIAc UFRJ), 2024: Received **Best Presentation Award** for the study "Testes de Servidor no Machine Teaching"

Others

- **Certificate of English Language Proficiency C2** – The highest-level certificate of English proficiency (02/2025)