

RÔMULO HENRIQUE NASCIMENTO DUARTE

 romhenri |  romulo-henri |  resume.romulohenri.com.br |  romulohenri000@gmail.com

WORK EXPERIENCE

Software Engineer Intern - Dhauz Analytics [Belo Horizonte - BR] Ago 2025 - present

Developing end-to-end solutions and data products for international clients, directly impacting critical business intelligence and client decision-making processes.

Skills: TypeScript, Python, Next.js, Docker, Supabase, SQL, AWS.

Software Engineer Intern - ARIA Lab [João Pessoa - BR] Mar 2024 - present

- Contributed to the CACTO system, an AI-driven solution for monitoring and controlling fiscal documents, modernizing highway goods inspection for the Paraíba State Revenue Service (SEFAZ).
- Improved the efficiency of audits by automating the process of finding and loading all relevant documents and their relationship. The solution gave auditors an holistic view over the documents and reduced the audit time since documents no longer needed to be analyzed separately.
- Migrated front-end from create-react-app to Vite.js, enhancing project structure and build performance in 88

Skills: JavaScript, React.js, Vite.js, Node.js, Axios, Docker.

Software Engineer Intern - Grupo Cajueiro [Florianópolis - BR] Set 2024 - Ago 2025

Developed a vehicle consortia management system from scratch, leveraging modern technologies like NextJS, Tailwind, Shadcn/ui and React Query to build a robust, high-performance, and scalable solution.

Skills: TypeScript, Next.js, Nest.js, Docker, Postgres, SQL, AWS.

RESEARCH EXPERIENCE

Research Lead - Tech. and Artificial Intelligence League (TAIL) Mar 2024 - present

Developed a multi-agent AI project, utilizing reinforcement learning to simulate a food chain. My work included designing environment rules, creating sprites, and implementing optimized agent interactions, resulting in a dynamic ecosystem that enhanced understanding of complex food chain dynamics.

Skills: Python, Pytorch, Pandas, Numpy, NLP, LLM, RL.

Associate Researcher - Huawei AI Center Nov 2025 - present

Trains students in analytical reasoning, problem-solving, and mathematical rigor under the guidance of qualified professors, fostering creativity and scientific curiosity.

Junior Scientific Initiation - Federal University of Paraíba (UFPB) Jan 2019 - Dez 2019

Trains students in analytical reasoning, problem-solving, and mathematical rigor under the guidance of qualified professors, fostering creativity and scientific curiosity.

EDUCATION

B.S. Computer Science - Federal University of Paraíba (UFPB) Dez 2023 - Dez 2027

HONORS AND AWARDS

Tech Fellow Estudar 2025 - Fundação Estudar [São Paulo, BR] Ago 2025

First Computer Science student from UFPB honored as Fellow Estudar, selected from over 6,000 candidates (0.25% acceptance rate) by Brazil's most prestigious organization dedicated to supporting future leaders.

3rd Place - Huawei Developer Competition LATAM [Brasília, BR] Oct 2025

Ranked 3rd Place at the Huawei International Hackathon. Developed a Health Care Data Solution leveraging Huawei Cloud services.

2nd Place - NASA Space Apps Challenge [João Pessoa, BR] Oct 2024

Awarded 2nd place among local competitors. Developed a gamified learning platform leveraging NASA's open-source datasets to enhance educational engagement.