Larissa Okabayashi

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EXPERIENCE

- **Apple Developer Academy** — Eldorado Institute, Campinas
  iOS development student — *Feb 2023 - Present*
  - **iOS Development**: Working in iOS development, structuring interfaces for devices developed by Apple, UX/UI Design, Business and Soft skills. I developed applications during my participation, individually and/or in groups, receiving feedback from Apple's own team. Notably, "TurtlEase" is available on the App Store in the USA and Brazil, with additional apps set to launch soon

- **Scientific Initiation in Finance and AI** — H.IAAC, Campinas
  Undergraduate Researcher — *Jul 2023 - Aug 2024*
  - **Interpretable Machine Learning**: Developed natural language explanations for credit risk decisions using ethical AI methods.
  - **Advanced LLM Implementation**: Utilized Llama 3-70B and Falcon-40B to enhance decision interpretability.
  - **Prompt Engineering**: Applied techniques like Generated Knowledge, One Zero Shot, and Chain of Thought for improved model outputs.
  - **UI Development**: Created a Gradio-based interface for user interaction and insight generation.
  - **Analytical Methods**: Implemented PDP and SHAP for analyzing key credit decision variables.
  - **API Integration**: Integrated LLMs with APIs for real-time data processing and analysis.

- **Gerdau** — São Paulo, SP
  Internship in data science — *Summer 2021*
  - **Case ESG**: Worked at Gerdau, a global leader in steel production, as a Data Scientist collaborating closely with the Data Analytics team on an Environmental, Social, and Governance (ESG) initiative. Spearheaded efforts to forecast CO_2 emissions at the Ouro Branco plant over the forthcoming years

- **Unicamp E-racing** — Campinas, SP
  Driverless Member — *Mar 2021 - Aug 2023*
  - **Telemetry**: Implemented a Wi-Fi network to share data from car sensors collected in the CAN, then built Grafana dashboards for enhanced data visualization, setting up the first real-time telemetry for FSAE Brazil.
  - **Devops Automation**: Additionally, I automated meeting minute documentation as part of the DevOps team.
  - **Mapping car's route**: Mapped the autonomous car's route using a predictive model.

PROJECTS

- **Yume The Wizard**: Educational iOS game to teach why interpretability and fairness matters in Machine Learning through an exciting adventure
- **Puyo-Puyo game**: Java game development inspired by a Nintendo video game released only in Japan
- **Snake Game**: Reinforcement Learning Game development with Machine Learning

EDUCATION

- **State University of Campinas** — Campinas, SP
  Bachelor's Degree in Computer Engineering — *Feb. 2021 – Dec. 2025*

PROGRAMMING SKILLS

- **Languages:** Swift, Python, Javascript, C++, SQL, Java   **Technologies**: AWS, SQL, CSS, HTML, Figma, Linux