

GIANE MAYUMI GALHARD

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EDUCATION

Masters of Computer Science, McGill University Sep 2025 - Expected Jul 2027
Bachelor of Information Systems, University of São Paulo (USP) Mar 2021 - Jul 2025
Web Computing Technical Course, Federal Institute of São Paulo (IFSP) Mar 2018 - Dec 2020

PROFESSIONAL EXPERIENCE

Back-end Software Engineer L1 Mar 2025 - Aug 2025
VTEX *Remote*

Front-end Software Engineer Sep 2024 - Jan 2025
ImmunoQs *Remote, Singapore*

- ImmunoQs is a Singapore-based startup in spatial biology and data analytics to advance targeted therapy and immunotherapy in cancers.
- Development of new features and maintenance of a frontend software application based on Javascript for visualizing and analyzing multiplex tissue images and spatial transcriptomics and metabolomics data used internally and available at immunoatlas.org;

Research and Development Intern Apr 2024 - Sep 2024
Bioinformatics Institute (A*STAR) *Singapore, Singapore*

- Designed and developed a front-end visualization module which aims to optimize and score data from different tissues images in order to see if a patient is suitable for immunotherapy using VueJS, Javascript, WebGL and OpenLayers

Back-end Software Engineer Summer Intern Jan 2024 - Apr 2024
VTEX *Remote*

- Designed, developed and deployed a new trigger microservice that reads messages from SQS and execute schedule actions using C#, AWS, SQLServer in order to migrate it from .NET Framework to .NET 8
- Over 97% test coverage, with observability to debug code and thorough documentation. Implemented industry best practices like CI/CD pipeline, design patterns, and secured credentials using AWS Secrets Manager to ensure efficiency, testability and maintainability.

Front-end Developer and Visiting Scholar Jun 2023 - Present
Blue Marble Space Institute of Science *Remote*

- Developed the landing page and front-end for an Adaptive Learning System called Agavi. This system offers a high degree of flexibility in building educational content and provides actionable analytics through the use of JavaScript, ReactJS, TypeScript, NodeJS, and TailwindCSS.

International Research Intern Feb 2023 - Aug 2023
University of Alberta *Edmonton, AB (Canada)*

- Developed code and updated a drug discovery code to simulate how drugs interacts with target molecules using Python, Jupyter Notebooks, machine learning and AutoDockGPU, and achieve 600% growth in performance time.

Scholarship Student Oct 2022 - Apr 2024
PET-SI (Tutorial Education Program) *São Paulo, SP (Brazil)*

- Organized extracurricular activities to teach technical skills to the community, such as git/github and physical computing courses for university students; BXCAMP, a computing competition for freshmen; and eletronic, ESP32, coding workshops for GRACE, project that incentives young girls in technology.

President

Síntese Júnior (Junior enterprise)

Apr 2021 - Dec 2022
São Paulo, SP (Brazil)

- Developed and coordinated a strategy plan that achieved company revenue of R\$45k, equivalent to 200% of the previous year, with an NPS of 90.91% focusing on innovation and user needs.

Undergraduate Researcher

University of São Paulo (USP)

Aug 2020 - Present
São Paulo, SP (Brazil)

- Designed an assistive technology enabling ALS patients to communicate via blinking using a cellphone using Arduino, ESP32 and C/C++.
- Developed a web tool for alternative communication based on a scanning interface controlled by a single button to later be integrated with eye tracking devices that detect eye blink movement.

Teaching Assistant for Introduction to Programming

University of São Paulo (USP)

Mar 2022 - Jul 2022
São Paulo, SP (Brazil)

- Implemented weekly Coding Dojo sessions, C programming lectures and logic tutoring while creating didactic supplementary materials about algorithms.

VOLUNTEER EXPERIENCE

Plone Foundation's Open Source Contributor (2024-Present) Contributed to issues on PortalGov and Volto. Attended the Plone Conference, participating in sprint sessions and lectures.

Technology and Innovation Director at Cursinho Popular Each USP (2024-Present) Cursinho Popular is a free pre-university program for students from underprivileged areas. I am responsible for leading the technology team to maintain the systems and website for Cursinho, as well as optimizing processes through technology.

Mentor at Lab das Minas (2024-Present) I design and deliver lectures on technology, creativity, and art to girls aged 9-16 from underprivileged areas, encouraging their participation in STEM fields

Microsoft Learn Student Ambassador (2023-2024) Hosted talks, organized online and in person events, and created social media content about Microsoft technologies.

Academic Vice-president at Information Systems' Student Directory (2023) Coordinated the academic team, organized extra lectures, workshops about careers, introduction to computer science classes to high schools around the university, and collaboration with technology events

General Coordinator at Information System Week Coordinated a cooperative team with the different sectors, especially creating the event's website, hybrid structure, finding speakers; and communicating with the university. The 2023 edition of the event reached out to 2,071 attendees online and in person.

Founder and General Coordinator at EXATECCA (2020) Coordinated the first edition of the event, promoting lectures and workshops with experienced speakers to encourage high schoolers to do scientific research. The event reached out to more than 150 high school students around Brazil in the first edition.

Volunteer at Each_InTheShell (2021-2023) Shared InfoSec content in portuguese, by creating online wikis, organizing workshops and lectures, specially about web exploitation.

General Coordinator at Mini-course "Physical Concepts for Information Theory and its Quantum Computing" (2023) The course objective was to introduce quantum physics and computing to computing students around São Paulo. Coordinated the infrastructure, speakers, staff students and its tasks.

PUBLICATIONS AND POSTERS

How technology perpetuates racism and other prejudices: a didactic exhibition for awareness about the consumption of content generated by artificial intelligence.

- Proceedings of XII Coninter (International Interdisciplinary Conference on Social Sciences and Humanities): civilizational crisis, ancestral knowledge, and decolonial thought in Latin America.
- [ISBN: 978-65-272-0419-0](#)

Inclusion tool for healthcare professionals with hearing impairment in the hospital environment.

- VII FECEG (Guarulhos' Engineering and Science Fair)
- <https://gru.guarulhos.sp.gov.br/index.php/SDC20/VIIFECEG/paper/view/87>

Eye tracking device for people with motor disabilities - DROPIM

- 1st place @ EXATECCA; 2nd place Engineering @ FEBRACE; 3rd place Engineering @ Feira Paulista de Ciência e Tecnologia; Finalist @ Mostratec
- <https://semanadoconhecimento.guarulhos.sp.gov.br/index.php/SDC/article/view/211>

AWARDS AND SCHOLARSHIPS

- McCall MacBains Scholarship (2025)
- Brazil at Silicon Valley Conference Awardee (Fundação Estudar) (2025)
- Singapore International Pre-Graduate Award (SIPGA) (2024)
- Tutorial Education Program (*Programa de Educação Tutorial - PET*) Scholarship (2022-2024)
- University of Alberta Research Experience (UARE) Award (2023)
- Hacktoberfest (2023)
- Undergraduate Teaching Enhancement Program (*Programa de Estímulo ao Ensino de Graduação - PEEG*) Scholarship (2022)
- 1st place at Hackathon SheHacks (2021)
- 1st place at NASA SpaceApps Challenge Local (2021)
- 1st place at Innovathon TravelTech (2021)
- 1st place at Hackathon Experimenta! (2021)
- 1st place at Engineering at EXATECCA (2021)
- 2nd place at Hackathon HackSSI (2021)
- 2nd place at Engineering at FEBRACE (2021)
- 3rd place at PaySmart Innovathon (2021)
- 3rd place at Challenge Recode Games4Good (2021)