Ana Clara Segal
Searching for an Internship Position

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EDUCATION

Bachelor in Information Systems, Universidade de São Paulo (USP) — 2023 - Expected 2026

Technical High School in Engineering, Federal Institute of Education, Science, and Technology — 2018 - 2021
Ismart Institute student

EXPERIENCE

Fullstack Software Developer (Intern) — Jun 2025 – Present
Agavi (Science Voices' program)

- Fullstack developer building a science education platform for low-connectivity regions.
- Developing the platform's new demo, enabling interactive experiences via smartphone, with task blocks, automatic scoring, and a teacher monitoring dashboard.

Research Student — Oct 2024 - Present
DROPIM (*Eye-Tracking Device for Motor Disabilities*)

- Co-developer of DROPIM, a low-cost eye-tracking device for alternative communication for individuals with severe motor disabilities.
- Developing a calibration interface to fine-tune the eye-tracking mechanism's sensitivity, improving usability. Implementation involves MicroPython (embedded backend), Figma, HTML, CSS, and JavaScript (frontend).

Fellow Member — Feb 2024 - Present
PET SI (Tutorial Education Program - Information Systems)

- Leads and mentors educational for both the university and external communities, promoting academic engagement and organizing educational events.
- Redesigned and implemented institutional websites for events and student initiatives using Next.js, React, Tailwind CSS, Node.js, HTML, Git/GitHub, and Figma for prototyping.
- Co-developed BXComp 14th edition's website, USP's student programming competition — from design to deployment.
- Modernized and improved the UX/UI of the GRACE website, a student-led initiative fostering gender diversity in tech.

Data Reductionist — Jan 2021 - Nov 2021
Massachusetts Institute of Technology (MIT)

- Member of the LCO SG1 subgroup, project TESS (Transiting Exoplanet Survey Satellite) – a NASA mission dedicated to the discovery and cataloging of exoplanets, led by MIT in collaboration with Harvard and the Smithsonian.
- Using photometric analysis tools, generated and interpreted light curves from telescope observations of various stellar systems, aiming to identify exoplanetary transits.
- Co-author in the cataloging of an exoplanet.

PROJECTS

EACH USP's Information Systems course website Fullstack redesign and redevelopment of the official website. Frontend development using Figma, Next.js, React, Tailwind, and HTML. Backend to be implemented with Spring.

Bibliographic Publication Author and illustrator of the children's book *Introduction to Astronomy*, featuring accessible explanations of fundamental astronomy concepts. Received recognition in an article on *Jornal do Brasil*.

EXTRA-CURRICULAR ACTIVITIES

- Member of GRACE (*Girls in Computing and Entrepreneurship*), promoting gender inclusivity in schools and universities through talks, workshops, and courses. Currently, coordinating a partnership with São Paulo's Prefecture Department of Education.
- Member of the Owlficinas project, where developed, organized, and led workshops on various extracurricular technical topics for USP students, ranging from introductory programming tools to advanced concepts in physical computing.
- Upon acquiring first place as a competitor, became a member of the organizing committee and the leader of BXComp, a programming competition for USP freshmen. Creates challenges and coordinates the event.
- Member of the Infrastructure team of the Information Systems Week (SSI) Organizing Committee, an annual event of the Information Systems program at USP Capital.

- Member of the Academic Department of DASI (Information Systems' Academic Directory - EACH USP). Organized study groups and career development events. Invited to lead the department in 2025.

AWARDS AND HONORS

- **Selected Project, TIM Academic Working Capital (AWC)** 2025
  DROPIM was selected for AWC, a national initiative that fosters university-based technological solutions with the potential to become innovative products and startups. Holds the leadership role for the group in the program.

- **Fourth Place, IV New Researchers Award** 2021
  A scientific paper contest for young researchers. The awarded work addressed the influence of fake news on the spread of COVID-19 in Brazil, emphasizing the importance of effective scientific communication for public sustainability.

- **Scholarship, Summer Program for Physics Study at the University of Cambridge** 2020
  Winner of the Immerse Education's international essay competition, awarded a scholarship for a summer program at Cambridge University for an essay on the role of scientific dissemination.

SKILLS

Technical Skills	Git, C, Java, JavaScript, SQL, PostgreSQL, HTML, CSS, Tailwind, React, Figma, Physical Computing, MIPS Assembly
Language Skills	Native Portuguese, Advanced English