

João Lucas Oliveira Silva

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EDUCATION

Harvard University

Expected May 2028

A.B. Candidate, Double Concentration in Computer Science and Government, Political Economy track

Cambridge, MA

- **Relevant Coursework:** Data Structures and Algorithms; Linear Algebra and Differential Equations; Algorithms and Optimized Democracy; Politics of Economic Inequality; Authoritarianism; The Politics of War.
- **Additional Certifications:** IT Fundamentals: Software and Hardware; LFEL1012: Secure AI/ML-Driven Software Development; Anthropic Academy: Advanced MCP and AI Fluency.

The Massachusetts Institute of Technology, MIT

Sep – Dec 2026

Incoming Fall Cross-Registration at MIT's Security Studies Department

Cambridge, MA

- **4-credit Coursework:** MIT 17.488: Simulating Global Dynamics and War.

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineering Intern, Operational Systems

Jun – Present

Stavias Stanoski

Rio Claro, Brazil

- Developing a full-stack internal software using Java/Spring Boot, React/Vite, TypeScript, and MySQL for field data collection for more than 300+ employees; designed the platform to structure 10+ monthly RDOs per active project, plus monthly closeout records, targeting faster delivery and reducing manual re-entry of field data.

Software Engineer Intern | IT Finance, Clients & Accounting

Jun – Aug 2025

BTG Pactual Bank

São Paulo, Brazil

- Automated financial reconciliation processes across +3 divisions of LatAm's largest investment bank; saved 18+ hours per month and increasing the reliability of regulatory data associated with +R\$ 1M in reported assets.
- Strengthened monthly validation workflows for reports submitted to the Brazilian Securities and Exchange Commission (CVM); integrated data from Investments, Credit, and Wealth Management using Python, AirFlow, Polars and AWS Services.

Engineering Emerging Leaders Series Apprenticeship

Dec 2025 – Apr 2026

Goldman Sachs

Dallas, TX / Hybrid

- Fully-funded competitive engineering program; developed a Mutual Fund Calculator based on financial accuracy, clean UI, and frontend-only architecture; worked on combining scenario modeling & financial projections.
- Use of +4 APIs with real-time data; deployment of Gemini-powered AI chatbot assistant; deployed full-stack prototype with Python Java, Node.JS, Angular to compound-growth projection across 8 major US mutual funds.

RESEARCH AND LEADERSHIP

Teaching Assistant, Web Development | Massachusetts Institute of Technology's TEJI

May – Sep 2026

- Taught +50 hours and +27 individualized classes of HTML, CSS, and JavaScript to +4 formerly incarcerated students; supported by TEJI@MIT and the prison education initiative Brave Behind Bars.

Research Assistant | Harvard Weatherhead Center for International Affairs

Apr – Jul 2026

- Developed Sistema Urbano Nodal, a web-designed platform using HTML, CSS, Python, JavaScript and JSON; collected +100 LatAm leader profiles across +4 countries; used full-stack architecture and deployment to support changemakers outreach.

Academic Tutor | Harvard Student Agencies

Mar 2026 – Present

- Provided +240 minutes of individualized tutoring and academic classes; focused on problem-solving, intellectual confidence materials, and performance in quantitative subjects, like STEM, Crypto and Public Speaking.

Mentorship Program, Co-Head | Harvard Brazilian Association of Students and Scholars

Sep 2025 – Present

- Led a selection process with 360+ applicants; developed +15 materials, guides, and preparation documents for approximately 60 mentees to undergraduate and graduate programs at Harvard.

Founder | Overseas

Apr 2023 – Jan 2026

- Co-founded the largest national Model UN delegation in the national SESI-schools network (approx. 450 schools); secured \$100.000,00+ in financial support with +5 public/private organizations.
- Trained 30+ students from +5 Brazilian states through classes, workshops, +24 hours of mock debates; received +7 international awards at Yale MUN&LatAm, Harvard&Cornell MUN.

ADDITIONAL PROJECTS

CEO, Angico | Gov-Tech Startup

Full-Stack | RestAPI

- Created an ontology-based environmental platform for leaders and Brazilian NGOs using Java, SpringBoot, and Leaflet API; currently in MVP phase, expecting partnership with 2 Municipal Secretaries.

Co-President, HUBA | Harvard Undergraduate Brazilian Association

Leadership | Culture | Outreaching

- Supports a team of +7 Board members, and a community of +60 members; oversees a budget of +\$ 10k and headed Brasil Project Conference at Harvard and MIT with +500 attendees and +\$ 100k budget.

TECHNICAL SKILLS

Programming: Python, Java, SQL, HTML/CSS, JavaScript, WebSockets, Node.js, R, $\LaTeX$.

Tools: AWS Services, Docker, MySQL, REST APIs/FastAPI, Git, CI/CD, Angular CLI, Microsoft 365, AI Agents, PySpark.

Languages: Portuguese, native | English, full professional proficiency | Spanish, limited working proficiency.