Alisson Sol

Physicist | Software Engineer | General Manager
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PROFESSIONAL EXPERIENCE

Stealth Startup | Co-founder | February 2026 – Present

- Building early-stage AI startup translating state-of-the-art world models research into practical frameworks for Edge AI security and safety across robotics and enterprise network infrastructure.
- Leading core technical research, prototype development, architectural validation, and product definition including customer-focused requirements and go-to-market strategy.

Capital One | VP of Software Engineering | January 2024 – January 2026

- Recruited to lead a 120-person Endpoints & Automation Engineering organization managing enterprise computing infrastructure for tens of thousands of employees. Improved cybersecurity posture, privacy compliance, accessibility standards, and edge AI deployment readiness.
- Launched Alaric, an end-to-end endpoint test harness enabling continuous validation of application and connectivity access before production deployment.
- Led STAMP (Software Trust and Approval Management Program) end-to-end, from PRFAQ to operation, deploying an automated vetting system enforcing endpoint application allow lists. Replacing manual workflows, STAMP cut median approval times from weeks to six hours while strengthening security compliance.

Google | Senior Engineering Manager | May 2022 – December 2023

- Directed Security Defense Platforms within Privacy, Safety & Security, managing geographically distributed teams across New York and Zurich focused on Enterprise Protection Platform and Security Endpoint Agents, the team responsible for Google open-source projects like Santa and GRR.
- Strengthened enterprise security posture by delivering infrastructure enabling granular policy enforcement for endpoint applications and privileged access controls, reducing organizational cyberattack exposure.
- Transformed team execution and accountability, improving OKR completion rates from 45% to 70% year-over-year while raising goal difficulty thresholds and establishing sustainable delivery practices.

Microsoft Corporation | Group Engineering Manager | September 2019 – April 2022

- M365 IC3 (Jan 2022 – Apr 2022): Drove Engineering Systems strategy and process optimization for Microsoft Teams backend infrastructure.
- AI Frameworks (Nov 2020 – Jan 2022): Managed ONNX runtime training, directing compute acceleration and infrastructure for AI model training including PyTorch integration. Managed both the white-glove teams interacting with internal and external customers and the team optimizing the execution providers for the specialized hardware acceleration.
- M365 IC3 (Sep 2019 – Oct 2020): Managed USA and Estonia teams for real-time backend powering Teams, Skype, and Skype for Business. Scaled services by 100x during 2020 pandemic while establishing the calling, meetings, and PSTN data team.

Amazon.com | Senior Software Development Manager | July 2017 – August 2019

- WorkSpaces (Feb 2019 – Aug 2019): Managed infrastructure teams for AWS secure cloud desktop service. Drove up manager, job, and teammate satisfaction while solving long-standing DevOps and customer problems.
- Dropship (Jul 2017 – Jan 2019): Led online services for real-time inventory, order processing, and transportation integrations for direct fulfillment. I implemented a new work prioritization and tracking processes that reduced technical debt while adding first new country stack in 9 years (India). Engineers considered that key to a fair performance assessment, which was a key complaint before in that team. The outcome was a reduction in team turnover from 50% to 5%.

Microsoft Corporation | Engineering Manager / Architect / Dev Lead | March 2000 – June 2017

4 Gold Star Awards | 7 Microsoft Research Technology Transfer Awards | 17 patent applications (10 granted)

- AI+R Core Architect & Manager (May 2013 – Jun 2017): Led SPACE (Security, Privacy, Accessibility, and Capacity Engineering) team supporting Bing, MSN, Cortana, and AI APIs. Developed request management and capacity modeling tools for millions of machines across multiple data centers.
    - Engineering Manager for AI Core Spartans group, a group of software engineers and data scientists working on special projects in the Artificial Intelligence area, expanded as a division onboarding team.
    - Led the development of security automation projects, including WebSec (presented at DefCon) and the unified URL Reputation service.
- Kinect for Windows (Nov 2011 – Apr 2013): Founding team member. Recruited and managed Computer Vision team for Kinect SDK shipped in 32 countries with 500K+ downloads. Implemented gesture recognition ML module and led KinectFusion tech transfer.
- Microsoft Research Cambridge (Feb 2007 – Jul 2010): Managed rapid evaluation and incubation of research for product transfer including Microsoft Touch Mouse and AutoCollage (first Microsoft Research project integrated with Windows Update). Managed partnership for tech transfers internally and externally (Wayve, Nimbus, and Pastry, among others)
- Earlier Roles (Mar 2000 – Jan 2007): Development Lead for PerformancePoint Server, Information Bridge Framework, Business Framework workflow UI, and BizTalk Orchestration Designer.

Earlier Career | Co-founder & Technical Lead | Pre-2000

- Co-founded 3 startup companies providing software, hardware, and IT consulting services.

EDUCATION

General Management Certificate | Judge Business School, Cambridge University, UK | 2009
Qualified for Doctoral Degree | UFMG, Brazil | 1997 | Distributed Multimedia Processing Metamodel
M.Sc. Computer Science | UFMG, Brazil | 1993 | Digital Image Processing Framework
Post-Graduate Studies, Electrical Engineering (Microelectronics) | USP, Brazil | 1990
B.Sc. Physics | UFMG, Brazil | 1988

TECHNICAL EXPERTISE

Leadership: Engineering organizations up to 200+ engineers with direct and indirect reporting lines, geographically distributed teams, DevOps transformation, agile planning, OKR frameworks, M&A integration.
Domains: AI/ML infrastructure, Edge AI, cybersecurity, endpoint management, cloud platforms, real-time systems, computer vision, robotics, product design/UX.
Technologies: LLMs, ONNX Runtime, PyTorch, world models, simulation environments, distributed systems, data pipeline architecture, virtualization, Azure, AWS, GCP, Kinect.