Andres Galaviz

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EXPERIENCE

Senior Software Engineering Manager

Microsoft September 2022 – September 2024, Redmond, WA

· **Azure New Tech Buildout**
· *Tech Lead/M1, Acting-M2:*
· Established the Impact Analysis team to forecast New Tech Hardware's downstream dependencies.
· Formed a strategic partnership with a mature product group in a separate org, accelerating time-to-market by 6 months with synchronized development efforts.
· Led redesign of Azure RM's buildout workflow to strengthen security, requiring cross-functional collaboration across Azure, Exchange, Office, and Xbox PMs and TLs.
· Established PR productivity metrics to minimize review bias, successfully merging efforts with an Azure team to enhance impact using data analysis.
· Scoped the requirements of a previously stalled project and secured three v-developers and one v-technical lead vendor with newly allocated funds for the organization, guiding the Technical Lead as an M2.
· *VP's Org Recruiting Champion:*
· Collaborated with M2s and HR to organize hiring events, reducing redundant screenings and addressing talent shortfalls to allow the org to hire 100+ positions (30+ under manager's org).
· Created detailed techscreening questions and acceptable solutions, enabling hiring managers to apply consistent criteria across multiple teams.
· **Azure Core Robotics**
· *Tech Lead/M1:*
· Identified a new market fit for Environmental Monitoring in DCs and led the MVP development and deployment during the summer fire season, securing more funding to expand the team's scope and headcount.
· Designed a stable/scalable Environmental Monitoring platform.
· Led the integration with a commercially available Robotics Fleet Management suite for teleop/metrics/versioning. Freeing up dev resources for autonomy and env monitoring.
· Led the introduction of large multimodal models to the robot's perception stack to reduce on-call burden when encountering non-trained-for situations.
· Developed code review culture docs aimed to increase developer productivity and team harmony.

Senior Software Engineer

Microsoft – Azure Core Robotics June 2022 – August 2022, Redmond, WA

· Delivered GPU-accelerated computer perception and vision features in C++ for the autonomous mobile robots.
· Developed a scalable service backend to support bi-directional data transfer to the robotic fleet.

Software Engineer II

Microsoft – Azure Core September 2019 – May 2022, Redmond, WA

· Led an intern through building a POC in ROS and Python, which leadership reviewed and approved as the foundation of the Azure Core Robotis team, led initial hiring and MVP development/deployment to an Azure DC.
· Delivered buildout support for Bing Project Catapult and Azure Accelerated Networking.

Software Engineer

Microsoft – Azure Compute July 2017 – August 2019, Redmond, WA

· Reduced team's product size by converging five precreated Windows MOS images and injecting applications/drivers at runtime with caching support, allowing most new HW configurations with only metadata releases.

Undergraduate Research Assistant, Intern

MIT, MSFT

· **Massachusetts Institute of Technology – Cambridge, MA**
· Undergraduate Exchange Research Assistant – Space Systems Laboratory – Spring 2017.
· **Microsoft – Redmond, WA**
· Intern – Azure – Summer 2014, 2015, 2016.

EDUCATION

M.S. in Computer Science (PMP)

University of Washington · Seattle, WA · 2026 · 3.98/4.00

B.S. in Computer Science

Tecnológico de Monterrey · Monterrey, Mexico · 2017 · 93/100

Honors Exchange Program in Computer Science

National University of Singapore · Singapore · 2016