

# Medhir Bhargava

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Customer driven with a passion for driving clarity to complex, cross-org business problems. I currently lead efforts to secure Microsoft and its customers against cybersecurity threats, including those from nation-state threat actors.

## Skills

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**Product** Technical Writing, API and UX Design, Data Analytics, Market Research, Roadmapping, Team Alignment

**Tech** Typescript/Javascript, Go, Python, Kubernetes, React, AWS, GCP, Azure, Terraform, SQL

## Work Experience

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**Senior Product Manager** Microsoft — Identity and Network Access (IDNA) / Seattle, WA 2021 - Present

- Leading efforts to standardize authentication and authorization patterns used by all core services that bootstrap Azure infrastructure across Microsoft's data centers.
- Drove the roadmap for cross-platform, broker-based authentication in Microsoft Authentication (MSAL) SDKs:
  - Brokered authentication enables Single Sign On (SSO) through the operating system and significant security benefits, such as management of enterprise devices and protection against phishing attacks.
  - Drove cross-org efforts to bring brokered auth to developer tools like Azure CLI, Visual Studio, and VS Code.
  - Launched [token protection](#) to Public Preview, a feature which cryptographically secures a token to the device it's issued to. This significantly reduces risk of attacks where the threat actor attempts to replay a stolen token.
- Spearheaded a multi-year investment to reduce response time in rolling out security-related breaking changes to token issuance from ~1 year to a few weeks, resulting in the release of the [Authentication Behaviors](#) MS Graph API.
- Coordinated the response and published advisories for [multiple incidents](#) through Microsoft Security Response Center (MSRC). Changes resultant from these incidents impact billions of tokens issued across ~3 million apps.
- Regularly drive VP+ leadership reviews. Lead effective decisions for funding goals across multiple engineering teams.
- Directly shaped AI strategy by building a proof-of-concept to answer questions related to developing with MSAL SDKs using the [Mixtral 8x7b](#) Large Language Model. Currently being developed further as a CoPilot extension.

**Software Engineer** Lightstep / Seattle, WA (Remote) 2019 - 2020

- Built a service to capture screenshots of DOM nodes from Lightstep's web app and a [Slack integration](#) to display previews of tracing & metrics data to assist teams in communicating while diagnosing production issues.
- Designed a system to scan through millions of individual metrics multiple times daily to detect significant latency / error anomalies in service operations upon a new deployment.
- Implemented a service for email delivery and a Lightstep-branded email HTML templating library in Go to improve transactional and marketing emails across the product.

**Software Engineering Consultant** Microsoft — Azure / Seattle, WA 2018 - 2019

- Maintained back-end pricing information APIs (C#) and front-end pricing calculators (Javascript & React) for all Azure cloud services at [azure.microsoft.com](https://azure.microsoft.com), a site with over 8 million monthly visitors.
- Managed the design and development of a branding refresh for the [Microsoft for Startups](#) program.

**Course Author & Developer** [educative.io](https://educative.io) / Seattle, WA 2017 - 2018

- [Learn HTML, CSS, and JavaScript from Scratch](#): Teaches the fundamentals of web development with 47 test-driven coding exercises and over 150 interactive playgrounds. Students build two full front-end applications by the end.

**Product Management Intern** Microsoft — Identity and Network Access (IDNA) / Seattle, WA 2016

- Developed technical specs and prototypes to [enable governance of Azure resources within Privileged Identity Management \(PIM\)](#), a tool for monitoring and managing access to an organization's cloud-based resources

## Education

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**University of Florida** Computer Science / Biological Engineering

Gainesville, FL