

Aash Brar

aashdeepbrar@gmail.com | (206) 480-6286 | linkedin.com/in/aash-brar/

WORK EXPERIENCE

Microsoft

Senior Software Engineer

Sept 2025 – Present | *New York, NY*

- Re-architected Partner Center's Declarative API (DAPI) orchestration service into a high-throughput streaming pipeline, reducing memory usage by 95% and cutting end-to-end latency by 70% for 200MB+ payloads under peak load.
- Designed and deployed a pluggable orchestration framework enabling 10+ partner teams to inject scenario-specific logic at runtime, reducing onboarding friction and eliminating the need for service-level forks.
- Led migration from the legacy orchestration service to the new streaming architecture, designing for backward compatibility to enable seamless partner adoption.
- Delivered Zero-Touch Deployment (ZTD) on DAPI by implementing Bicep-based infrastructure and dynamic configuration injection, enabling deployment to new cloud environments with zero code changes.

Software Engineer 2

Sept 2022 – Aug 2025 | *New York, NY*

- Served as the SME for the DAPI gateway and legacy orchestration services, resolving critical production incidents and expanding orchestration support to 6 additional product types, increasing API product coverage by 65%.
- Enabled expansion from 2MB internal payloads to 200MB+ external service payloads by reworking request handling and memory management under tight delivery timelines.
- Spearheaded the design and development of the Commercial Marketplace Copilot, an advanced Azure OpenAI chatbot integration with multifaceted capabilities, resulting in a 70% reduction in SaaS offer creation times.
- Led 3 engineers in migrating 6 services from legacy auth to Managed Service Identity (MSI), eliminating secrets exposure.
- Increased test coverage to 90%+ for two critical services by designing a config-driven outside-in testing framework adopted across the team and leading the rollout of comprehensive service test suites.
- Mentored an intern by designing a scoped project aligned with the product roadmap. Intern successfully delivered a generative AI initiative; later offered a return offer based on performance.

Software Engineer

Nov 2021 – Aug 2022 | *Redmond, WA*

- Implemented core functionality for the legacy DAPI orchestrator, scaling it from PoC to production supporting 50K+ requests/day. Took ownership of API gateway integration and introduced comprehensive testing across both services.
- Implemented a scheduled offer deprecation feature used in 1000+ offer cleanups, coordinating with 6 partner teams to ensure seamless integration and minimize customer impact.

Amazon | *Software Development Engineer Intern*

Aug 2020 – Dec 2020 | *Toronto, ON*

Microsoft | *Software Engineer Intern*

May 2020 – Aug 2020 | *Redmond, WA*

Flipp | *Software Engineer Intern*

May 2019 – Apr 2020 | *Toronto, ON*

Seed | *Full Stack Engineer Intern*

Mar 2018 – Aug 2018 | *Toronto, ON*

SKILLS

- **Languages:** C#, Java, Python, JavaScript, C, SQL
- **Frameworks & Libraries:** .NET Core, .NET Framework, Node.js, React, Angular
- **Technologies:** Azure, AWS, CosmosDB, Service Bus, Service Fabric, Git, CI/CD, Linux, REST APIs, Event-Driven Architecture, Streaming Pipelines, LLM APIs, Prompt Engineering

EDUCATION

University of Toronto | *HBSc. in Computer Science*

Sept 2016 – Aug 2021 | *Toronto, ON*

- **GPA:** 3.91/4.00
- **Awards:** Dean's List Scholar (2016 – 2019), Computer Science Honor Roll (2016 – 2019)
- **Teaching Assistant:** CSC148 - Introduction to Computer Science (Jan 2019 – Apr 2019)