NIKIT PRABHU

Senior Software Engineer, AI Agents & Platform Engineering

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SUMMARY

Senior Software Engineer at Microsoft building AI-native systems: enterprise agents, MCP servers and tools, and agent harnesses that pair LLM reasoning with deterministic execution and human oversight. 10+ years across cloud integration, mobile platforms, and agentic SDLC, with a track record of scaling systems to hundreds of partners and millions of monthly transactions.

CORE EXPERTISE

Agentic AI Systems | **MCP & Tool Use** | **Multi-Agent Orchestration** | **Context Engineering** | **Cloud Platforms (Azure)** | **Full-Stack Engineering**

EXPERIENCE

Senior Software Engineer — Microsoft *2024 – Present*

- Design and build enterprise AI agents, MCP servers and tools, and agent harnesses for testing, incident troubleshooting, and software delivery, pairing LLM reasoning with deterministic execution and human oversight.
- Apply multi-agent orchestration, context engineering, and loop engineering to make agent workflows controlled, observable, and repeatable in production.
- Co-design reusable agent platforms exposing operational capabilities through MCP tools and APIs, with authenticated access, authorization, and full observability.
- Drive agentic SDLC adoption, applying agent harnesses to onboarding and integration development to shorten delivery cycles.

Software Engineer 2 — Microsoft *2019 – 2024*

- Built a resilient, serverless Azure integration PaaS delivering B2B and A2A capabilities, scaling to 10M+ transactions per month across 200+ business-critical applications and 700 partner relationships.

Software Engineer, Visual Studio App Center — Microsoft *2017 – 2019*

- Shipped the Google Play Store distribution feature end to end: Node.js APIs and React/TypeScript interfaces that let developers publish directly from App Center; also contributed to iOS App Store distribution.

Software Engineer, SAP Data & Incubation — Microsoft *2015 – 2017*

- Built an SAP-to-Cosmos DB data extraction pipeline sustaining 300 transactions per second, with a windowing pattern for transient-error recovery.
- Shipped the MS Transport Android app (Xamarin/Java) for cab and shuttle booking, with analytics, crash reporting, push notifications, and AAD single sign-on.

PROJECTS

ML-Based US Electoral Campaign Finance Prediction *2019*

- Built a clustering model over US Census demographic data to generate a per-zip-code fundraising expectation index, then shipped a React, Node.js, Leaflet, and D3.js dashboard to explore expected versus actual fundraising geographically.

EDUCATION

M.S., Computer Science, Machine Learning Specialization *2017 – 2019*
Georgia Institute of Technology • GPA 3.9/4.0

B.E., Computer Science Engineering *2011 – 2015*
Thapar University • GPA 8.8/10.0

HONORS

- Microsoft Pinnacle Award, AI Innovation *2026*
- Microsoft Excellence Award *2017*
- Microsoft Excellence Award *2016*