# Nagendra Posani

**AI Evaluations Engineer** · Apple · Principal Software Engineer · ex-Microsoft

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Principal Software Engineer with **10 years** of experience building highly scalable, secure and authentication systems. Proven expertise in **distributed systems architecture, microservices, and cloud infrastructure** at massive scale. Deep experience in security, privacy, and compliance for cloud services. Track record of leading technical initiatives for platforms processing **100+ million daily transactions** with **99.999% availability SLA**.

## EXPERIENCE

### MLE — AI Evaluations
Oct 2026 – Present

**Apple** · Seattle, WA

- Building the **evaluations platform for Apple** — measuring how models and agents behave before they reach people.

### Principal Software Engineer
Sep 2025 – Sep 2026

**Microsoft Foundry (Core AI)** · Redmond, WA

- Architected the Foundry evals platform — **40+ graders** with **90% latency reduction** via hostile-container architecture; built **agentic red-teaming** with tool-injection attacks for runtime safety.
- Led architecture reviews for the Observability org, establishing design principles for scalable, reliable distributed systems; drove the service to **99.9% SLA** under heavy load.

### Senior Software Engineer
May 2024 – Aug 2025

**Microsoft Foundry (Core AI)** · Redmond, WA

- Led the **Foundry Evaluation Service** team across safety, risk and performance evals; shipped the GenAI evals platform with custom red-team capabilities.
- Researched **hybrid SLM/LLM inference** (Azure OpenAI + Phi) to cut GPU cost; mentored engineers on cloud AI architecture.

### Senior Software Engineer
Sep 2022 – Apr 2024

**Azure Multi-Factor Authentication, Microsoft** · Redmond, WA

- Rewrote a legacy monolith into **gRPC microservices** carrying **100M+ daily authentications** for Microsoft 365, Azure and IAM; reached **99.999% SLA** with auto-failover, circuit breakers and retry policies.
- Built Synapse + DataLake analytics pipelines powering cost-reduction decisions across the service.

### Software Engineer 2
Mar 2020 – Aug 2022

**Azure Multi-Factor Authentication, Microsoft** · Redmond, WA

- Shipped **number matching & rich context** in Microsoft Authenticator; **cut authentication costs by $50M/yr** through smarter SMS/voice prompts.
- Isolated fault domains to shrink the blast radius of data-layer outages; led threat modeling, SDL and privacy reviews; **−30% API latency**.

### Software Engineer
Feb 2018 – Feb 2020

**Azure Multi-Factor Authentication, Microsoft** · Redmond, WA

- Migrated the data layer to Graph API storage; **−20% service latency** via residency-aware traffic routing; built k6 load/stress suites and modern token & certificate auth.

### iOS Security Engineer Intern
May 2017 – Aug 2017

**VMware** · Atlanta, GA

- Replaced SAML with **OAuth 2.0 mobile SSO**; encrypted Core Data at rest on device.

### iOS Mobile Developer
Jan 2015 – Jul 2016

**Finvolv (formerly Kuliza)** · Bangalore, India

- Shipped iOS apps end-to-end for multinational clients — requirements through launch; drove performance and crash fixes.

## TECHNICAL SKILLS

**LANGUAGES**
C#, Java, Scala, Python, JavaScript, Swift

**FRAMEWORKS & TECH**
.NET, gRPC, OAuth 2.0, REST APIs, Microservices architecture

**CLOUD & BIG DATA**
Azure, Synapse, Apache Spark, DataLake, EventHub

**SPECIALIZATIONS**
Distributed systems, security & privacy, high availability, performance optimization

## EDUCATION

**M.S. Cybersecurity**
Georgia Institute of Technology
Atlanta, GA · 2016 – 2017

**B.Tech, ICT**
DA-IICT
Gandhinagar, India · 2011 – 2015

## PUBLICATIONS

- Automatic Generation of Compact Alphanumeric Shellcodes for x86 · Springer, Dec 2014
- Alphanumeric Shellcodes for ARM Architecture · Springer, Oct 2013