

Anton Generalov

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EXPERIENCE

Microsoft

Software Engineer

San Francisco, CA

Jul 2022 – Present

Azure BRAIN: Global observability platform and AI/ML-powered outage detection.

- Improved reliability, deployment automation, and security for an observability pipeline processing **7 billion events per hour**, supporting **Microsoft internal teams and external Azure customers** worldwide.
- Extended the platform to **France and Germany sovereign clouds**, completing the team's monitoring infrastructure buildouts with automated deployments and **Infrastructure as Code (Bicep)**.
- Built an **agentic converter** targeting **25,000 legacy JavaScript monitors** using parallel coding agents and evaluation/retry loops; validated behavior with synthetic data and flagged cases for manual review.
- Launched an **AI-powered Azure DevOps workflow** automating work-item creation plus retrospective generation and review; adopted for regular use by multiple teammates.
- Owned end-to-end design and conversion logic for a **C#/.NET migration CLI**; partnered with customers to build controlled, interactive workflows used by **25+ Azure and Microsoft teams** to migrate monitors.
- Drove a monitoring service's migration to dedicated compute across **400 production clusters**, owning capacity planning, validation, and staged rollout; completed the migration with **no customer-impacting outages**.
- Implemented health-gated **progressive delivery** across **20 clusters in 3 regions**, catching a regression on synthetic traffic before customer-serving rollout; established the team's deployment process and release cadence.
- Remediated **200+ critical security violations** and coordinated broader fixes as a team security lead; modernized authentication by migrating supported event-stream connections to managed identity.

McDonald's Corporation

Software Engineer

Chicago, IL

Jul 2020 – Jun 2022

Global Tech Rotational Program (Teams: Data & Architecture, POS & Kiosk, Enterprise Systems).

- Engineered **Java** producers and consumers on **AWS Fargate/ECS** with **Kafka** and **Kinesis** to stream customer-profile updates for personalized marketing.
- Delivered **AWS Lambda** loyalty services and refactored messaging to **SNS/SQS FIFO** to address out-of-order transaction processing.
- Instrumented AWS ECS and Lambda services with **OpenTelemetry** distributed tracing and built **New Relic** dashboards and alerts to support production incident diagnosis.

EDUCATION

University of Chicago

Bachelor of Science in Computer Science

Chicago, IL

2016 – 2020

- **Academics:** Odyssey Scholarship (full-ride), Dean's Honor Roll
- **Athletics:** Varsity Swim Team – 4-Year Letter Recipient, All-Academic Team

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET, Python, Java, JavaScript/TypeScript, SQL

Cloud & Delivery: Azure, Kubernetes (AKS), Service Fabric, Bicep, Azure DevOps, AWS, CI/CD

Systems & Messaging: Distributed systems, event-driven architecture, stream processing, Kafka, Kinesis, SNS/SQS

Observability: Grafana, Prometheus, OpenTelemetry, New Relic, distributed tracing

AI & Agentic Workflows: GitHub Copilot (OpenAI and Anthropic models), custom AI skills, multi-agent orchestration, context management, evaluation/retry loops, human-in-the-loop validation