

# Anton Generalov

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## EXPERIENCE

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### Microsoft

Seattle, WA

*Software Engineer II - AI-Ops Health Platform*

*Jul 2022 – Present*

- **AI Agent Monitor Migration Platform:** Built an interactive console app and an **AI-powered migration agent (Codex 5.3)** to automate monitor configuration migrations end-to-end — scaling from 1,000 to 500,000+ monitors migrated, supporting 40+ enterprise teams, and maintaining 99.9%+ service reliability.
- **Intelligent Monitoring Recommendations:** Designed and shipped an AI-driven monitor recommendations microservice using **.NET Aspire** and **Azure Container Apps** end-to-end from design doc through ring-based production deployment, establishing the team's reference template for modern service development.
- **Safe Deployment Practices:** Designed and rolled out a ring-based canary deployment pipeline across 20+ regional clusters with risk-profiled stages, automated health checks, and blast-radius reduction — catching an undiscovered regression before any customer-facing region was impacted.
- **Dispatch Service Migration:** Executed a major compute migration for a core dispatch service across all production regions, performing per-region capacity planning and staged wave rollouts to achieve 100% coverage with zero service degradation.
- **Security Hardening:** Served as primary security SME and org-wide v-team rep, driving zero-trust hardening across distributed services — maintaining zero downtime while eliminating 120+ compliance flags across Azure resources.
- **QoS Metric Integration:** Built and shipped quality-of-service metric support in the V2 monitoring pipeline across all production regions with zero regressions — eliminating the last major feature gap and unblocking migration for 150+ product teams.
- **Sovereign Cloud Expansion:** Migrated deployment structure to region-agnostic model using **Bicep/Terraform**, enabling rapid sovereign cloud buildouts and reducing new deployment time from weeks to a single one-touch deployment.

### McDonald's Corporation

Chicago, IL

*Software Engineer - Global Technology (Rotational Program)*

*Jul 2020 – Jun 2022*

- **Real-Time Data Streaming:** Built scalable **Java** producers/consumers on **AWS Fargate/ECS** streaming 40M+ customer profile updates through **Kafka (MSK)** and **Kinesis** pipelines, enabling real-time personalized marketing offers.
- **Loyalty Microservices:** Architected event-driven **AWS Lambda** functions that processed loyalty transactions for 40M+ app users, refactoring from standard **SQS** to **SNS/SQS FIFO** to eliminate out-of-order errors across mobile app offers.
- **Digital Ordering Platform:** Delivered end-to-end McCafé coffee customization on POS/kiosk platform across 14,000+ restaurants — owning the full lifecycle from requirements to coding and in-restaurant deployment to reduce incorrect orders by 15%.
- **Observability Platform:** Resolved business-critical latency issues by instrumenting **OpenTelemetry** distributed tracing across all **AWS ECS** and **Lambda** services, building **New Relic** dashboards with SLO-based alerting to reduce mean time-to-detection for production incidents.
- **Stakeholder Tooling:** Shipped a **React/Express.js** web app to automate cross-market stakeholder reporting, increasing on-time director submissions from 40% to 96% and eliminating manual data aggregation across 30+ global markets.

## EDUCATION

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### University of Chicago

Chicago, IL

*Bachelor of Science in Computer Science*

*2016 – 2020*

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

## PROJECTS AND ACCOMPLISHMENTS

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**McDonald's Global Hackathon (2021):** Won Google's "Best Implementation of Technology" award out of 100+ global teams for an AR "Happy Meals" application built with **React, Go, and Google Compute Engine**.

## SKILLS & CERTIFICATIONS

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**Languages:** C#/.NET | Python | Java | JavaScript/TypeScript | SQL | Go

**Technologies:** .NET Aspire | AKS/Kubernetes/Docker | Bicep/Terraform | Kafka | Redis | CosmosDB | React.js | OpenTelemetry

**AI/ML:** LLM Integration | AI Agents (Codex/Claude Sonnet/Opus) | Prompt Engineering | RAG Pipelines | Azure OpenAI

**Certifications:** AWS Certified Solutions Architect | AWS Cloud Practitioner | PSM I - Professional Scrum Master