

NICHOLAS A. D'AGOSTO V

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SKILLS

- **Languages:** Python, C#, TypeScript, JavaScript, SQL
 - **Frameworks:** Next.js/React, Vue 3, C#/.NET, Node/Express, Tailwind
 - **Databases:** MSSQL, Postgres/TimescaleDB, SQLite, MySQL, Weaviate
 - **Cloud/DevOps:** AWS EC2, Lambda, S3, RDS, SQS/SNS, SES, CloudFront, Route 53, CloudWatch, IAM; Docker, Linux, Nginx, PM2, Git/GitFlow
 - **Observability:** OpenSearch, Elasticsearch, Logstash, Kibana/OpenSearch Dashboards, CloudWatch alarms/dashboards
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EMPLOYMENT

Reality Interactive, Middletown, CT

Software Engineer, May 2023 - Present

- Built a RAG-powered chatbot for a major U.S. mall operator's public site using Next.js, React, Python, OpenAI APIs, and Weaviate; implemented AWS Lambda + EventBridge ingestion pipelines to keep store hours, promotions, events, and tenant data current.
 - Developed and extended a real-time telemetry and content distribution platform for thousands of Android-based digital signage players using C#/.NET, MSSQL, Vue.js, and operational dashboards for device health, content delivery, and fleet analytics.
 - Designed backend ingestion and monitoring services for high-volume device metrics using RabbitMQ, Express/Node, and TimescaleDB/Postgres; diagnosed production bottlenecks across EC2, disk I/O, Nginx, PM2, and database workloads.
 - Led migration from legacy Elasticsearch/Kibana infrastructure to AWS-hosted OpenSearch + Logstash pipelines, improving indexing resiliency, alerting reliability, lifecycle/storage policy management, and reducing cloud infrastructure costs by roughly 10%.
 - Built and maintained AWS production infrastructure across EC2, S3, RDS, CloudWatch, IAM, SQS/SNS, SES, CloudFront, and Route 53; configured alarms, log pipelines, origin hardening, TLS/DNS, and deployment workflows for customer-facing services.
 - Shipped full-stack product/admin features in Vue 3 and .NET Framework 4.8/EF/MSSQL, including persistent per-user UI theming, questionnaire/admin tooling, dashboards, and production support fixes across legacy and modernized systems.
 - Contributed to Android application development in Java, implementing UI and accessibility improvements deployed across several thousand client devices; supported incident response with engineering, QA, and product teams.
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SELECTED PROJECTS

- **Mloop client platform:** Deployed and hardened a test environment for a Next.js/Node matching platform using AWS Lightsail, CloudFront, Caddy, Docker Compose, Clerk, RDS, Drizzle, and SES; implemented admin questionnaire/matching workflows and production-style email/DNS setup.
 - **Multi-Agent Research Workspace:** Built a Next.js 15 / React 19 / TypeScript AI research app that orchestrates parallel agents, live progress, typed session state, citations, retries/timeouts, and mock/live search adapters; deployed at tenex.dagos.to.
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EDUCATION

University of Connecticut School of Engineering, Storrs, CT
GPA: 3.5

B.S. in Computer Science, May 2023