

NICHOLAS A. D'AGOSTO V

nicholas@dagosto.com | (203) 800-5038 | www.nickdagosto.com | Shelton, CT 06484
[LinkedIn](#) | [GitHub](#)

EMPLOYMENT

Reality Interactive, Middletown, CT

Senior 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, and ChatGPT, with a Weaviate vector store; integrated AWS Lambda and EventBridge to automate periodic data refreshes for store info, hours, promotions, and events.
 - Maintained, enhanced, and extended a real-time metrics system for our digital signage platform (C#/.NET backend with MSSQL + Vue.js frontend), enabling distribution of content and collection of live telemetry from thousands of android players running our in-house app.
 - Maintained legacy ELK stack, then led migration to Logstash + Opensearch on AWS, optimizing cluster configuration and storage policies to reduce cloud costs by ~10% and improve system uptime through more resilient indexing and alerting pipelines.
 - Maintained and improved AWS-based observability + analytics infra (EC2, S3, RDS, Cloudwatch, Opensearch), including alerting pipelines, backups, and indexing policies; built dashboards in Kibana/Opensearch to surface device health and log analytics; contributed to efforts to standardize deployments and support scaling.
 - Made incremental contributions to Android apps in Java, including UI layout and accessibility-focused design changes; shipped updates used across several thousand client devices.
 - Provided L3 support during critical incidents, collaborated with PMs and QA, and mentored junior devs on debugging, source control (Gitflow), and clean architecture practices.
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EDUCATION

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

B.S. in Computer Science, May 2023

CAPSTONE PROJECT

Food Truck Mobile Ordering App, Storrs, CT

2022 - 2023

- Built full-stack React Native app with offline ordering capability; SQLite, Node.js, Apache.
 - Designed to sustain core functionality even during network loss, emphasized resilience under uncertainty.
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SKILLS

Elasticsearch / Logstash / Kibana
AWS (EC2, S3, RDS, CloudWatch, IAM, OpenSearch)
Next.js (React), HTML/CSS/JS, C#/.NET/MSSQL

Python /Java / Kotlin
C, Git, MySQL / SQLite
Linux / MacOS / Windows

CERTIFICATIONS

AWS Cloud Foundations Certification

AWS Data Engineering Certification

RELEVANT COURSES

- Systems Programming, Computer Architecture, Cybersecurity Lab
- Algorithms & Complexity, Mobile App Development, Computer Networks
- Computer & Network Security