NICHOLAS A. D'AGOSTO V

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SUMMARY

Full stack AI enabled software engineer with 3+ years building SaaS applications, applied AI features, and AWS infrastructure. Lead developer for a mortgage recruiting marketplace from initial architecture through production launch; experienced in platform modernization and AI assisted delivery with code review and testing.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, JavaScript, Python, SQL, C#, Java; Next.js, React, Vue 3, Fastify, .NET

Data & Cloud: PostgreSQL/TimescaleDB, MSSQL, Drizzle, RabbitMQ, AWS (Bedrock, EC2, RDS, S3, SES, Lambda), Docker, GitHub Actions, OpenSearch

AI & Quality: Claude Code, Codex, Cursor, MCP, RAG, OpenAI APIs, Playwright, Vitest, Sentry

EXPERIENCE

Reality Interactive, Middletown, CT | Software Engineer | May 2023 – Present

- Led the bitShuttle portal redesign, building a 36 component Vue 3/TypeScript design system with five themes; rebuilt navigation, tables, editors, and analytics with responsive layouts and improved keyboard accessibility.
- Modernized a multi-tenant Vue/.NET platform across two repositories, reconciling months of parallel development while preserving feature behavior; coordinated QA, SQL migrations, and production releases.
- Built a device metrics system for ~3,000 Android signage players using RabbitMQ, Node/Express, and TimescaleDB/Postgres; surface CPU, memory, disk, temperature, and playback data to support fleet monitoring and production troubleshooting.
- Led migration from Elasticsearch/Kibana to AWS hosted OpenSearch and Logstash, improving log ingestion, alerting, and storage lifecycle management while reducing infrastructure costs ~10%.
- Built a RAG chatbot for a major U.S. mall operator using Next.js, Python, OpenAI APIs, and Weaviate; automated data refreshes with Lambda/EventBridge and evaluated retrieval quality and response accuracy before release.

mLOOP | Lead Developer | April 2026 – Present

- Led full stack, AI enabled development and launch of a private mortgage recruiting marketplace using Next.js, Fastify, PostgreSQL, Clerk, and Stripe; platform recorded 531 matches and 99 conversations through October 2026.
- Built the matching engine with eligibility filters, configurable scoring, confidence weighting, and run diagnostics. Integrated Claude on Amazon Bedrock to explain why loan officers and lenders match and interpret lenders' geographic preferences, with rule based fallbacks should AI be unavailable.
- Built a 14 tool, read only MCP server for querying platform data from AI clients, with Clerk OAuth, scoped credentials, schema validation, rate limiting, and per-call audit logs.
- Established Docker and GitHub Actions deployments to AWS Lightsail; delivered SES email and consent-aware SMS workflows. Reduced admin users page load time from ~20 seconds to under 1 second through batched lookups and server side pagination; added backend unit tests and Playwright tests covering lender and loan officer workflows.

EDUCATION

University of Connecticut, School of Engineering, Storrs, CT | B.S. in Computer Science