

Richard T. LoRicco, Esq., MBA

Software Engineer

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📁 Professional Experience

Creator, Software Engineer, Nimbus ↗ Created an open-source framework that simplifies the deployment of lightweight, task-specific Natural Language Processing (NLP) models into production (https://nimbusnlp.github.io/ ↗). - Developed a TypeScript/Node.js CLI that orchestrated configuration, artifact generation, and cloud provisioning, reducing 35+ manual steps to 1 and cutting deployment time from hours/days to minutes. - Engineered the cloud infrastructure using AWS CDK for reliable and repeatable Infrastructure as Code (IaC) deployments, automatically provisioning and managing AWS Lambda (via Docker containers), API Gateway (with API key security), ECR, and S3 resources. - Architected a cost-effective, serverless backend for model inference, optimizing for the intermittent, batch-processing workloads common for smaller teams. - Built React-based UI playground to test deployed models, supporting end-to-end validation and improving developer feedback loops. - Spearheaded technical case study detailing the challenges of NLP model deployment, Nimbus's system design, architectural decisions, technical trade-offs, and future roadmap.	01/2025 – present
Open Source Contributor, Mozilla Firefox - Built a WebExtensions requestUpdateCheck method, enabling extensions to trigger update checks and deliver critical security patches faster than the default 24-hour cycle (<i>in review</i>, Bug #1740508 ↗). - Developed safeguards to prevent keyboard shortcut conflicts and improved executeScript error messaging, providing clearer debugging information for extension developers (<i>in review</i>, Bug #1654403 ↗, Bug #1420665 ↗). - Refined API documentation and test infrastructure, resolving ambiguities, correcting references, and optimizing asynchronous handling (Bugs #1831397 ↗, #1975872 ↗, #1975300 ↗).	07/2025 – Present
Software Engineer, Self-Employed - Basket Case - Tool for collecting and debugging webhooks (DigitalOcean, Nginx, MongoDB, Node.js, Express, React). - RAGCast - Full-stack Retrieval-Augmented Generation (RAG) application that enables users to query and receive context-aware answers from podcast transcripts (Node.js, TypeScript, OpenAI, Langchain, PostgreSQL/pgvector, React).	2022 – 2025
Associate Attorney, The LoRicco Law Firm, LLC Managed transactional work and advocated for clients in civil and criminal court arenas.	2018 – 2021

🧠 Skills

Backend Node.js, Express, Ruby, Sinatra, PostgreSQL, MongoDB, REST APIs, Jest	Frontend JavaScript, TypeScript, React, Handlebars, HTML/CSS	Cloud AWS (CDK, SDK, API Gateway, Lambda, EC2, ECS, S3) DigitalOcean, Heroku
AI/ML OpenAI API, Gemini API, LangChain, pgvector (vector similarity search), vector embeddings, Retrieval-Augmented Generation (RAG), NLP	Other Git/GitHub, Docker, WebSockets, Nginx, Postman, cURL, OOP, HTTP/S, Linux, Bash	

🎓 Education

Master of Business Administration (MBA) , University of Connecticut - School of Business (GPA 3.99)	2022
Master of Laws (LL.M.) , University of Miami - School of Law (GPA 3.96)	2019
Juris Doctor (JD) , Quinnipiac University - School of Law (Magna Cum Laude)	2018
Bachelor of Science in Finance; Minor in Real Estate , Lehigh University	2015