

Greg Albanese

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PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years of experience building full-stack web applications and enterprise platforms across advertising, finance, and aviation. Currently leading portal development for OneIDP — Omnicom's Internal Developer Platform — a platform engineering initiative targeting enterprise-wide self-service cloud provisioning across all Omnicom agencies, with a roadmap to route 80%+ of all infrastructure builds through the platform. Architecting the governed entry point for AI coding agents via MCP (Model Context Protocol), enabling AI-driven infrastructure provisioning through the same approval gates, RBAC, and security controls applied to human developers. Deep expertise in React, TypeScript, .NET, Node.js, and cloud-native tooling. Proven track record of reducing operational overhead, improving system performance, and delivering developer-first solutions at scale.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, JavaScript, React, Next.js, Node.js (Express), .NET / C#

UI & Design Systems: Material UI (MUI), Backstage, Angular, PrimeNG, Tailwind CSS

Cloud & DevOps: AWS, Firebase (Firestore, Functions, Storage), Terraform, Kubernetes, Helm, Docker, CI/CD, Azure DevOps

Databases & Communication: SQL Server, PostgreSQL, GraphQL (Apollo), SignalR, OAuth

Tooling & Platforms: Playwright, NUnit, Moq, GitHub, ServiceNow, Temporal Cloud, Okta

AI & Emerging Tech: LLM Integration (Anthropic Claude API), AI-Assisted Development (GitHub Copilot, Claude for VS Code, Claude for Visual Studio)

PROFESSIONAL EXPERIENCE

Senior Software Engineer · **Omnicom** · Jersey City, NJ · *Jan 2024 – Present*

OneIDP — Internal Developer Platform

- Serve as lead portal developer for OneIDP, Omnicom's enterprise Internal Developer Platform (IDP), built from the ground up on Backstage, React, TypeScript, Express, and Material UI — enabling self-service infrastructure provisioning for developers across all Omnicom agencies worldwide.
- Implemented and enforced the platform's golden path framework through the portal — translating organizational standards into self-service workflows that replaced weeks-long ticket-based infrastructure requests, targeting sub-hour provisioning, 80%+ of all Omnicom builds through OneIDP, and a 60%+ reduction in OT Ops manual workload by Q2 2027.
- Built OneIDP as the governed entry point for AI coding agents via MCP (Model Context Protocol), enabling AI-triggered infrastructure provisioning across 19 tools spanning Temporal, Backstage Catalog, TechDocs, and template execution — subject to identical RBAC, approval gates, cost thresholds, and security controls as human developers.
- Implemented enterprise-wide resource naming conventions, mandatory tagging standards, and per-agency RBAC scoping — enforcing cost allocation via Apptio, audit traceability through ServiceNow RITMs, and security baselines (encryption at rest, TLS, logging, public access disabled) across all IDP-provisioned cloud resources.
- Containerized and deployed the platform via Docker, Helm, and Kubernetes with KEDA for event-driven autoscaling of Temporal workers; integrated Okta SSO for authentication and built end-to-end test coverage using Playwright.

Project Triangle — Enterprise HR Data Sync Platform

- Led development of Project Triangle, a .NET / C# data synchronization platform that maintains real-time consistency of employee records across Reach, Workday, and Microsoft Dynamics 365 (D365) for tens of thousands of employees across all Omnicom agencies.
- Engineered a snapshot-based change detection system that compares employee profiles between source HR systems and D365, identifying delta changes (title updates, approver reassignments, etc.) and propagating only the differences — minimizing API load and ensuring data fidelity.
- Implemented a hybrid sync architecture combining scheduled batch processing and event-driven triggers, ensuring timely updates for time-sensitive fields like expense approvers while efficiently handling bulk record reconciliation.
- Eliminated thousands of help desk tickets by automating up to hundreds of HR record changes per day that previously required manual intervention, freeing operations staff and reducing resolution time from days to near real-time.

Software Engineer · BBDO Worldwide · New York, NY · Oct 2016 – Dec 2023

- Led design and development of a high-volume treasury management system (Angular, .NET Web API, Node.js, SQL), driving an 85% increase in daily active users and API call volume.
- Built a secure OAuth-compliant API following MVC and repository design patterns, enabling maintainable, testable, and scalable request processing.
- Reduced client-facing latency by 40–50% by integrating SignalR for real-time bi-directional communication between clients and the server.
- Improved SQL query performance by over 80% — cutting page load times from 5–10s to under 800ms — by refactoring stored procedures, views, and indexing strategies.
- Drove TDD adoption, increasing application code coverage to 90% using NUnit and Moq testing frameworks.
- Designed and delivered a billing request application for all BBDO agencies using ReactJS, TypeScript, and .NET Web API.
- Established CI/CD pipelines via Azure DevOps, reducing deployment time and improving bug detection cadence across weekly sprint cycles.
- Collaborated directly with project managers and end users to define product roadmaps, assess deliverables, and lead daily agile standups.

IT Developer II · New York Community Bancorp (NYCB) · Commack, NY · Jan 2016 – Oct 2016

- Spearheaded migration from a legacy ASP application to a modern .NET MVC architecture, delivering a more responsive and maintainable platform.
- Designed custom timesheet reporting using advanced SQL (CTEs, stored procedures, joins, views) to meet complex business reporting requirements.
- Supported NYCB's transition from waterfall to agile methodology, working closely with business analysts to translate requirements into robust solutions.

Software Engineer · Schultheis & Panettieri, LLP · Hauppauge, NY · Nov 2014 – Jan 2016

- Served as lead architect and developer for a Swift mobile application enabling staff to manage time-off requests, expense submissions, and timesheets.
- Developed front-end web applications using jQuery AJAX with .NET Web API endpoints, following MVC architecture patterns.
- Mentored company interns in JavaScript, the MVC lifecycle, and .NET Web API best practices.

Software Developer · SITA · Bohemia, NY · Sep 2013 – Nov 2014

- Rebuilt and modernized the Certification web application using JavaScript, jQuery, HTML, and PHP.

- Refactored and maintained the back-end database interface using Apache and MySQL, improving system stability and code maintainability.

EDUCATION

B.S. Computer Science · University at Buffalo, Buffalo NY · May 2013