

# GREGORY DUGGER

Enterprise Engineering Leadership • Hands-On .NET 9 Architecture • Agentic AI Strategy

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## EXECUTIVE SUMMARY

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Senior engineering leader and **hands-on .NET 9 architect** directing strategy, architecture, and delivery across a **three-product SaaS portfolio**. Scaled the engineering organization from **15 engineers across 2 teams to 32 across five teams** with **zero capacity loss**. Peer-level partner to the CIO and VP of Product on roadmap, organizational design, and technology direction; reports to the VP of Architecture & Development; influences budget and P&L. Owns **enterprise AI strategy** with frontline agentic depth (MCP, custom agent harnesses, flow-discovery tooling). 10+ years enterprise software, 8+ years leading engineering organizations.

## CORE COMPETENCIES

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Enterprise Engineering Strategy • Multi-Product SaaS Portfolio Leadership • Global Engineering Operations • Enterprise AI Strategy & Agentic AI (MCP) • .NET 9 / C# Architecture • Multi-Platform API Design • Cloud (AWS / Azure) & FinOps • Enterprise Security & OAuth2 / OIDC / SAML • Organizational Design & Talent Strategy • Executive Stakeholder Partnership

## PROFESSIONAL EXPERIENCE

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### Sr. Manager of Development & Architecture | Archer Systems

March 2020 – Present

Houston, TX

Reports to VP of Architecture & Development. Principal architect of the .NET 9 platform; senior engineering leadership across strategy, organization, and AI.

- Serve as **principal architect of the .NET 9 platform** powering a three-product SaaS portfolio (300–500 person enterprise, multi-million records) — design service boundaries across a layered modular monolith (API / Business / DataAccess / Common), the EF Core 9 data layer, Hangfire background processing, Elasticsearch indexing, and event-driven Azure Service Bus integration; hands-on contributor on platform-critical paths.
- Designed a **single versioned multi-platform API** serving two Angular 20 SPAs plus .NET and external consumers with per-consumer gating, DTO contracts, and pagination/filtering — propagating events across systems via typed Azure Service Bus message contracts; define target-state architectures and reusable patterns that scale across product lines.
- Scaled the engineering organization from **15 engineers across 2 teams to 32 across five teams** (four engineering, one DevOps); own organizational design, capacity strategy, delivery governance, engineering standards, and quality benchmarks; influence budget and P&L.
- Stood up Archer's India engineering and DevOps organization from scratch under a CIO-directed transition; personally led knowledge transfer and structured onboarding for new leads and engineers **with no delivery interruption**.
- Drove SaaS-portfolio cost reduction via **AWS Cloud FinOps**, library and dependency rationalization, and license cleanup — personally delivered approximately **\$50K toward a \$500K enterprise cost-reduction target**.
- Own **enterprise AI strategy** — defined the vision and led deployment across engineering, QA, planning, and product workflows; drove **30%+ QA and development productivity uplift** and meaningfully expanded test coverage via agentic test generation, PR regression detection, AI-assisted code review, and unit-test generation.

- Pioneered the enterprise's agentic AI capability — designed **MCP servers, custom agent harnesses, and flow-discovery tooling** that automate complex business workflows, compressing **3-day SLAs into ~10 minutes**; established AI tooling governance and strengthened security posture with enterprise secrets management (Keeper, AWS Secrets Manager), organization-level repository teams, and RBAC.

**.NET Developer II | Rural Sourcing, Inc.**

*March 2018 – March 2020*

*Mobile, AL*

- Delivered .NET / C# enterprise web applications and stand-alone tools across a diverse client portfolio; owned full-lifecycle delivery — requirements, architecture, implementation, testing, and deployment — as the senior engineer on multiple client engagements.
- Mentored peers and junior developers; contributed to internal practice development and engineering recruiting.

**Lead Developer | Tracksoft, LLC**

*April 2017 – February 2018*

*Mobile, AL*

- Lead .NET developer on a financially-integrated customer management system; established design-pattern standards, documentation discipline, and code-review practice.

**EDUCATION & INTERESTS**

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Computer Science coursework — University of South Alabama. Distance runner — daily, year-round; complete 2–3 marathons annually. Member, Katy-Area Running Club.