

LASHON HUDSON

Senior Software Engineer | Solutions Architect | Automation Engineer

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PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer and Solutions Architect with 8+ years of full-stack enterprise development experience across manufacturing, education, and professional services. Currently leading architecture and development of a large-scale enterprise manufacturing platform built on ASP.NET Core MVC 8 with a hub-and-gateway design, reverse-proxy routing, and modular sub-applications. Equally active building and shipping modern full-stack products independently using the Next.js, React, and cloud-native ecosystem. Proven ability to lead engineering teams, drive technical decisions, design background-service architectures, and deliver high-performance systems with a strong focus on scalability, automation, and developer experience.

CORE COMPETENCIES & TECHNICAL SKILLS

Languages & Frameworks: C# • .NET 8 / ASP.NET Core MVC • React.js • Next.js 14 • Node.js • TypeScript • JavaScript • VB.NET / VB6 • HTML/CSS • jQuery

Data & Backend: SQL Server / T-SQL • PostgreSQL • Entity Framework • Dapper • Prisma • Drizzle • MongoDB • REST APIs • Reverse-Proxy Routing • Active Directory • Background / Hosted Services

Cloud & Platforms: Azure DevOps • AWS • Vercel • Supabase • Neon • Clerk (Auth) • Stripe • Resend • Plaid API • Anthropic API

Architecture & DevOps: Hub-and-Gateway Architecture • Microservices • CI/CD Pipelines • Git / GitHub • IIS Deployment • Edge Functions • Cron / Scheduled Jobs

UI & Tools: Kendo UI • Tailwind CSS • shadcn/ui • Bootstrap • Power BI • SSRS • Crystal Reports • JIRA • Postman • Swagger • Agile / SCRUM

PROFESSIONAL EXPERIENCE

Sr. Software Engineer & Architect | Automation Production Engineer

Chromalloy | Savannah, GA

2025 – Present

- Lead architect and engineer for an enterprise manufacturing platform on ASP.NET Core MVC 8 serving cross-functional production teams at a global aerospace manufacturer
- Designed a hub-and-gateway architecture using reverse-proxy routing with modular sub-applications, centralized authentication, and Active Directory role-based access control
- Built a complete group-management system from the ground up — relational schema with stable identifier keys, member resolution across directory accounts and manually-created users, searchable department/employee directory, and an inline administrative dashboard
- Architected a suite of background/hosted services for environment monitoring, including scheduled sensor polling, transition-based alert de-duplication, and pooled hourly digest notifications
- Redesigned system-wide email routing to resolve recipients dynamically by stable group key, replacing brittle hardcoded configuration with a maintainable, data-driven model
- Built real-time data visualization, interactive charts, and SQL stored procedures for production tracking and setpoint management with min/max band logic
- Established source control and CI workflow on on-premises Azure DevOps, resolving enterprise authentication and repository configuration
- Lead a team of 2–5 engineers, driving technical decisions, code reviews, development standards, and junior developer mentorship

Software Engineer II

Integrisource | Remote (Wayne County, MI)

06/2023 – 07/2024

- Built ASP.NET Core MVC applications in C# with T-SQL for large public school district systems serving thousands of daily users

- Achieved 40% reduction in vulnerability exposure through enhanced security protocols across client-facing applications
- Improved system throughput and reliability by 40% through architectural improvements and query optimization
- Led full conversion of a legacy client-server system to a modern ASP.NET Core web application
- Boosted query performance 25% via Dapper and Entity Framework optimizations and built custom reporting

Software Engineer I

Precision Castparts Corporation (PCC) | Douglas, GA

03/2021 – 06/2023

- Integrated .NET system upgrades in a manufacturing environment, increasing productivity 50% and reducing operational costs 20%
- Co-architected a legacy MES migration to a modern Razor Pages web platform contributing to an estimated \$75K in cost savings
- Reduced data-related issues 15% through SQL Server stored procedure optimization in a high-volume production environment
- Diagnosed VB6 legacy code issues in a Linux virtual environment, cutting system downtime by 30%
- Developed executive management reports using Crystal Reports, Power BI, and SSRS surfacing key production metrics

Founder & Lead Software Engineer

Hudson Web Design & Consulting | Savannah, GA

05/2017 – Present

- Founded and operate an independent software practice delivering full-stack web applications and platforms for small businesses and agencies
- Designed and shipped a full project-management and client-consultation platform on Next.js 14 with Supabase, Clerk authentication, and transactional email — featuring a multi-type invoicing engine, automated billing emails, and scheduled cron jobs for recurring invoices and late-fee logic
- Built a creative-agency web platform with Prisma/PostgreSQL, an invite-only admin dashboard with idle-timeout security, and an end-to-end booking system with status workflow and internal notes
- Delivered a staffing-agency platform leveraging serverless edge functions and automated weekly reporting via transactional email, resolving cross-service authentication and environment configuration
- Built React frontends integrated with REST APIs, including a real-time inventory system for a multi-location retail client with a 30% efficiency gain
- Managed full project lifecycle — requirements, architecture, development, deployment, and client training — maintaining a 97% client satisfaction rating

EDUCATION

Master of Science, Software Engineering — Kennesaw State University | Kennesaw, GA | 2017 – 2020

Capstone: Designed and built a full-stack repository-management application using Angular.

Bachelor of Science, Computer Science & Technology — Savannah State University | Savannah, GA | 2014 – 2017

NOTABLE PROJECTS

Enterprise Manufacturing Platform — ASP.NET Core MVC 8, Reverse-Proxy Routing, SQL Server, Active Directory, Hosted Services

Architected and leading development of a full enterprise manufacturing hub with multi-application routing, shared services, background monitoring/digest services, and production-floor interfaces.

Full-Stack Project Management & Client Platform — Next.js 14, Supabase, Clerk, Resend, Stripe

Project and client-consultation tool with a multi-type invoicing engine, automated billing emails, and scheduled recurring/late-fee cron jobs.

AI Stock Market Scanner — React, Anthropic API, Web Search, Paper-Trading Simulation

AI-powered stock analysis app with real-time trend scoring, sentiment badges, sparkline charts, and a \$10K paper-trading simulation.

Personal Finance Dashboard — React, Next.js, PostgreSQL, Tailwind, Prisma, Plaid API

Full-stack finance dashboard with bank-account integration, multi-chart visualizations, and mobile-responsive design.