

# 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 sectors. Currently leading architecture and development of Minerva, a large-scale enterprise manufacturing platform at Chromalloy, built on ASP.NET Core MVC 8 with a hub-and-gateway architecture, YARP reverse proxy, and modular child applications serving cross-functional production teams. Proven ability to lead engineering teams, drive technical decisions, and deliver high-performance systems in both agile and production environments. Deep expertise in the .NET ecosystem, SQL Server, React, and cloud-native development with a strong focus on scalability, automation, and developer experience.

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## CORE COMPETENCIES & TECHNICAL SKILLS

### Languages & Frameworks

C# • .NET 8 / ASP.NET Core MVC • Blazor • Razor Pages • TypeScript • JavaScript • React.js • Angular • Node.js • Next.js • Python • VB.NET / VB6

### Data & Backend

SQL Server / T-SQL • Entity Framework • Dapper • Stored Procedures & Triggers • MongoDB • REST APIs • YARP Reverse Proxy • IMemoryCache • Active Directory

### Architecture & DevOps

Hub-and-Gateway Architecture • Microservices • Azure DevOps • AWS • Git / GitHub / TFS • PowerShell • Linux • CI/CD Pipelines • IIS Deployment

### UI / Reporting / Tools

Kendo UI • Bootstrap • Tailwind CSS • HTML/CSS • jQuery • SSRS • Power BI • Crystal Reports • Active Reports • Postman • Swagger • JIRA • Agile SCRUM

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## PROFESSIONAL EXPERIENCE

### Automation Production Engineer (Senior Software Engineer / Architect) Savannah, GA

*Chromalloy*2025 – Present

- Serve as lead architect and engineer for Minerva, an enterprise-scale manufacturing platform built on ASP.NET Core MVC 8, consolidating and modernizing production workflows across multiple facility departments.
- Designed and implemented a hub-and-gateway architecture using YARP reverse proxy with modular routing across multiple child applications (including AssetVault), centralized authentication, and role-based access control via Active Directory.
- Architected shared service infrastructure covering user management, audit logging, real-time notifications, and centralized file storage — reducing redundant development effort across applications.
- Lead a team of 2–5 engineers, driving technical decisions, performing code reviews, establishing development standards, and mentoring junior developers across the full stack.
- Developed the Shell Room module (Dripper Settings, Slurry Targets, Cell views) with custom UI components, interactive charts, real-time data visualization, and IMemoryCache with TTL-based cache invalidation.
- Engineered SQL stored procedures (ShellProcessMetrics, ShellProcessData, ShellDripperSettings, ShellProcessSetpoints, Minerva\_ShellSetPoint) for production tracking, setpoint management, and historical data analysis.
- Collaborated with Mercury team to align on shared architecture conventions, cross-project communication patterns, and enterprise-wide technical standards.

### Software Engineer II Remote (Wayne County, MI)

*Integrisource*06/2023 – 07/2024

- Enhanced application security protocols, achieving a 40% reduction in vulnerability exposure across client-facing school board systems.
- Engineered an ASP.NET Core MVC application in C# with T-SQL, increasing system throughput and reliability by 40% for a large public school district.
- Led conversion of a legacy client-server system to a modern data-centric web application using ASP.NET Core and C#.NET, modernizing the experience for district administrators and staff.

- Built reusable Kendo UI / .NET Framework components for multi-project use and boosted query performance 25% via Dapper and Entity Framework optimizations.
- Developed customized reports for business analysts using Active Reports, translating complex data requirements into actionable visualizations.

### **Software Engineer I** Douglas, GA

*Precision Castparts Corporation (PCC)* 03/2021 – 06/2023

- Integrated system upgrades in a .NET manufacturing environment that increased production productivity by 50% and reduced operational costs by 20%.
- Co-architected a migration pattern to move the legacy MES to a modern web platform using Razor Pages, contributing to \$75K in estimated cost savings.
- Reduced data-related issues by 15% through stored procedure optimization on SQL Server and diagnosed VB6 legacy code issues in a Linux virtual environment, cutting downtime by 30%.
- Collaborated with engineers and stakeholders to build and maintain unit test coverage, reducing bug-related delays by 25%.
- Developed ad hoc management reports using Crystal Reports, Power BI, and SSRS to surface key production metrics for executive decision-making.

### **Founder & Lead Software Engineer** Savannah, GA

*Hudson Web Design & Consulting* 05/2017 – Present

- Founded and operated an independent software development and consulting practice, delivering full-stack web applications and digital strategy for small businesses across Savannah.
- Built reusable Angular Material component libraries and React.js frontends integrated with RESTful APIs — including a real-time inventory system for a multi-location grocery chain (30% efficiency gain).
- Achieved a 97% client satisfaction rating delivering intuitive UX/UI designs that improved user engagement and foot traffic for multiple clients.
- Advised business owners on technology adoption, resulting in new business model implementations and expanded online presence.

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## **EDUCATION**

### **Master of Science, Software Engineering** Kennesaw, GA

*Kennesaw State University* - 08/2017 – 05/2020

*Capstone: Designed and built a full-stack GitBucket clone application using Angular (team project).*

### **Bachelor of Science, Computer Science & Technology** Savannah, GA

*Savannah State University* 01/2014 – 05/2017

### **Bachelor of Science, Cybersecurity** Remote

*Western Governors University* - 2023 – 2026 (In Progress)

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## **NOTABLE PROJECTS**

### **Minerva — Enterprise Manufacturing Platform** *ASP.NET Core MVC 8, YARP, SQL Server, Active Directory*

Architected and led development of a full enterprise manufacturing hub platform at Chromalloy with multi-application routing, shared services, and production-floor interfaces.

### **AI Stock Market Scanner** *React, Anthropic API, web search, paper trading simulation*

Built an AI-powered stock analysis application with real-time trend scoring, sentiment badges, sparkline charts, and a \$10K paper trading simulation with live portfolio tracking.

### **Finance Tracker** *React, Next.js, PostgreSQL, Tailwind, Drizzle, Hono, Plaid API*

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