

Nathan Lloyd

Full Stack Cloud & AI Developer

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Professional Summary

Full Stack Cloud & AI Developer with 20+ years delivering secure, scalable, cost-optimized solutions. Expert in **serverless architectures** and practical **AI integration** for businesses including meetings, sales, and workflows. Proven record of transforming enterprise operations — now helping SMBs achieve fast ROI with lean, high-impact implementations. Family man, Cub Scout Den Leader, and coach who builds trustworthy systems and teams.

Technical Expertise

- **AWS Serverless:** CDK, Lambda, API Gateway, DynamoDB, S3, ECS, EC2, IAM, Step Functions, VPC, RDS, Bedrock
- **AI & Automation:** AI-orchestrated meetings, intelligent workflows, ML pipelines, generative AI, Agents, search platforms
- **Fullstack:** TypeScript, Web Components, Tailwind CSS, React, Node.js, Python, Java
- **Other:** Postgres, Linux, Docker, DevOps, IaC, Elasticsearch, SQL

Professional Experience

Principal Developer – Blue Cross Blue Shield NC *Dec 2021 – Present*

- Designed and implemented **AWS serverless solutions** that dramatically reduced costs, vulnerabilities, and complexity.
- Delivered **AI applications:** orchestrated meetings (flow, discussion, capture, action items), accelerated sales prospect-to-customer conversion, and built asynchronous workflows
- Embedded AI across developer workflows and full SDLC
- Lead developer on paperless and digital wallet transformation initiatives.

Senior Software Developer – General Motors *May 2014 – Dec 2021*

- Built **AI/ML annotation pipelines** and platforms processing ~10 TB of data daily for safety issue detection and rapid model training and deployment.
- Led development of LiDAR-to-3D simulation platform for L3/L4 autonomous driving
- Architected global **subscription-based search engine** serving technical data (owner manuals to electrical schematics) to thousands of engineers, sales, and service users.
- Developed internal AI/ML platform and custom DevOps solutions for large engineering teams.

On-Site Technical Consultant – IRS Internal Revenue Service *Nov 2013 – Apr 2014*

- Monitoring for critical taxpayer systems (eFiling, ACA, refunds) serving 144 million+ citizens

Software Developer – AMD Advanced Micro Devices *May 2009 – Nov 2013*

- Engineering tools for CPU design and private cloud infrastructure with .NET/Java DevOps.

Education

BBA, Computer Information Systems – Texas State University, 2009

Summa Cum Laude • Outstanding Undergraduate Award

Honors

General Motors Annual Top Coder (3 times) • Spotlight Awards from AMD & GM & BCBS NC