

Alex Zare

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AI Solutions Engineer | Cloud-Native Full-Stack Developer | AWS Certified Cloud Practitioner

Full-stack cloud developer and AI/cloud solutions engineer with hands-on experience building React/Next.js applications, Node.js/Express APIs, serverless workflows, authentication systems, dashboards, RAG pipelines, and AI-enabled automation tools. Developed a patent-pending, SBIR-supported predictive maintenance platform for GeogizModo, backed by AWS Certified Cloud Practitioner credentials and 7+ years of technical project delivery experience in regulated, healthcare, and public-sector environments.

Core Technical Skills

Cloud & AWS: Lambda, API Gateway, S3, DynamoDB, IAM, Cognito, CloudWatch, Step Functions, Amplify, Secrets Manager, AWS CLI, SAM, CDK, least-privilege access

AWS AI/ML & Generative AI: Amazon Bedrock, SageMaker, Textract, Rekognition, Comprehend, Transcribe, Lex, Kendra, Amazon Q Developer

Full-Stack Development: React, Next.js, TypeScript, JavaScript, Node.js, Express, Python, FastAPI, Flask, REST APIs, PostgreSQL, SQLite, Redis, HTML, CSS

Cloud Delivery & Automation: Git, GitHub Actions, Docker, Docker Compose, CI/CD workflows, infrastructure as code, deployment automation, environment configuration

AI Application Workflows: OCR, RAG workflows, embeddings, vector search, semantic chunking, ChromaDB, prompt engineering

Selected Technical Experience

GeogizModo | AI / Cloud Full-Stack Developer

Patent-Pending Predictive Maintenance Platform | 2025–2026

- Built an SBIR-supported fleet and predictive maintenance platform improving vehicle health, maintenance planning, mission-risk visibility, and terrain-exposure analysis across 382+ vehicles and 12 operational bases.
- Converted terrain, weather, and route data into AI/geospatial risk scores and component wear predictions, with authentication, role-based access, encryption, rate limiting, and audit logging.

Selected Independent Technical Projects

AI-Powered Appointment Scheduling Platform | Sole Full-Stack Developer

Full-Stack AI Scheduling Platform | 2025

- Built an AI scheduling platform that reduces manual appointment coordination by automating confirmations, rescheduling, waitlisting, escalation, and SMS/email communication across staff and client workflows.

- Engineered a 13-state LLM-driven conversation workflow with async processing, OTP authentication, role-based access, and staff/client user interfaces.

Lending Program Intelligence Platform | AI/ML Infrastructure Developer

Document Intelligence & RAG System | 2025

- Built a document intelligence platform that converts complex lender and banking program documents into searchable, structured knowledge for brokers and loan officers.
- Designed OCR, text normalization, semantic chunking, metadata tagging, embeddings, ChromaDB indexing, and RAG retrieval workflows to support program lookup, policy review, and new loan officer training.

AWS Cloud Institute & Technical Training

Amazon Web Services | AWS Cloud Institute

Cloud Application Development & Solutions Architecture Program | 2025

- Completed project-based AWS Cloud Institute training across cloud architecture, serverless development, infrastructure as code, security, monitoring, networking, databases, AI/ML service patterns, and AWS Well-Architected principles through hands-on labs and prototypes.

Pence Contractors | Senior Project Engineer

Oregon & California | 2023–2024

- Managed schedules, budgets, documentation, stakeholder coordination, and compliance workflows for public-sector projects in regulated environments.

TCG Core Group | Senior Project Engineer / Project Manager

Milpitas, CA | 2019–2022

- Managed healthcare, residential, and commercial project delivery for clients including Stanford and Google, with project values ranging from \$100K to \$5M.

Holland Partner Group | Project Coordinator | 2017–2019

Independent Projects | Project Developer | 2015–2017

U.S. Army Medical Materiel Agency | Project Manager, Imaging Devices | 2015–2016

Education

M.S. in Construction Management | California State University, East Bay | 2018

B.S. in Mechanical / Biomedical Engineering | University of Tennessee, Knoxville | 2015

Certifications

AWS Certified Cloud Practitioner | September 2025

AWS Certified Solutions Architect – Associate | In Progress

AWS Certified Developer – Associate | In Progress