ANDREW MUDGE
CLOUD ENGINEER

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PROFESSIONAL SUMMARY

Cloud engineer specializing in secure AWS architectures with proven success delivering scalable solutions. Combines hands-on AWS development experience with 12 years of military leadership as a U.S. Marine Corps F-35B pilot, bringing a disciplined, mission-focused approach to solving complex technical challenges.

FEATURED CLOUD PROJECTS

Family Reunion Web Application
Built a secure, serverless web app for private content sharing using AWS CDK, Cognito, DynamoDB, S3, and Lambda. Implemented pre-approved user access, email verification, and a responsive Next.js frontend with CI/CD via GitHub and Vercel, following AWS Well-Architected principles.
[Documentation Link](#) | [GitHub Repo](#)

Serverless Event Booking Web Application
Developed a fully serverless event booking platform using AWS Lambda, API Gateway, DynamoDB, Cognito, SES, and S3. Implemented secure authentication, automated booking confirmations, and CI/CD via GitHub Actions, enabling scalable, low-latency handling of thousands of concurrent requests.
[Documentation Link](#) | [GitHub Repo](#)

EC2 Tutorial Series (In Progress)
Developing a multi-step tutorial deploying NGINX and Flask on EC2 with load balancing and custom VPC, automated infrastructure with CloudFormation/CDK, and containerized workloads on ECS Fargate with autoscaling, following IaC and security best practices.
[Documentation Link](#)

PROFESSIONAL EXPERIENCE

U.S. Marine Corps – F-35B Pilot (2014–Present)
Managed mission planning servers and secure communication networks, enforcing data integrity, availability, and security required to mission plan and operate the F-35.

Led training for 18 pilots with phase-based programs, ensuring operational readiness and mission success during squadron training and deployed combat operations.

EDUCATION

B.S. Mechanical Engineering
San Diego State University, 2014

CORE COMPETENCIES

Cloud Platforms:
AWS (EC2, S3, IAM, DynamoDB, Lambda, API Gateway, Cognito, SES)

Infrastructure as Code:
Terraform, AWS CDK, Serverless Frameworks

Web Frameworks:
Next.js, React, Flask

Version Control & CI/CD:
GitHub, GitHub Actions, Automated Build/Deploy Pipelines

Security:
NIST Frameworks, Security Controls, Identity & Access Management

Operating Systems & Tools:
Linux, VS Code

CERTIFICATIONS

- Google Cybersecurity Professional Certificate - 2025
- AWS Solutions Architect Associate (Target Nov 2025)
- AWS Security Specialty (Target Jan 2026)

SECURITY CLEARANCE

- Active TS/SCI