

SARAH WADLEY

Software Engineer | Cloud Architect

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SUMMARY

Full-stack engineer with 4+ years in defense, aerospace, and data infrastructure. Proven ability to design AI-augmented development tooling and high-throughput ETL systems processing hundreds of millions of records daily. AWS certified with hands-on experience delivering mission-critical software in Agile environments.

PROFESSIONAL EXPERIENCE

Software Engineer (Contract)

Westgate Data Science | Remote | Sep 2025 – Jan 2026

- Designed automated ETL pipeline processing 500M+ records daily (~200GB) in 2-3 hour cycles, eliminating manual processing
- Leveraged AI-assisted development (ChatGPT, Codex) for architecture design and implementation, accelerating delivery
- Built core data infrastructure powering risk assessment platform with automated cross-reference analysis
- Developed standardized virtual environment setup scripts ensuring consistent dependencies across development and production servers

Software Engineer – Space and Airborne Systems

L3Harris Technologies | Palm Bay, FL | 2021 – 2024

- Partnered with defense clients through monthly requirements sessions, delivering iterative releases across 2-week sprints
- Contributed to F-35 program through integration testing and failure analysis of mission-critical avionics modules
- Implemented features live during customer demos, showcasing rapid prototyping capabilities and deep system knowledge
- Maintained containerized deployments for classified satellite communication systems with specialized security protocols

Research Assistant – Simulation Design

Center for Advanced Power Systems, Florida State University | 2018 – 2019

- Co-authored academic paper on power system simulation; designed Unity-based 3D visualization GUI

PROJECTS

Sharkrite – AI-Powered Development Workflow Tool

Open source CLI tool built on Claude Code to automate development lifecycle: issue creation, Git worktree management, code generation, PR review, security analysis, and cleanup

CloudWithSarah.com – Portfolio Infrastructure

Serverless portfolio with technical blog via AWS CDK with S3, CloudFront (OAC), Route53, ACM, and GitHub Actions CI/CD

ScreenMyProfile – Social Media Screening Tool (In Development)

AI-powered social media analysis for clearance applicants; multi-tenant architecture with Cognito auth, Next.js 14/React/TypeScript frontend, and serverless backend with multi-environment AWS infrastructure

TECHNICAL SKILLS

AI/ML & Automation: Claude API, Claude Code, ChatGPT, Codex, prompt engineering, AI-augmented dev tooling

Languages: Python, Java/Kotlin (Android), JavaScript/TypeScript, C++, SQL

Cloud & Infrastructure: AWS (EC2, Lambda, S3, RDS, CDK), Docker, CI/CD pipelines, Jenkins

Data & Backend: PostgreSQL, ETL pipelines, REST APIs, Node.js, Django, high-volume data processing

Tools & Methods: Git, Jira, Confluence, Agile/Scrum, unit testing, technical documentation

CERTIFICATIONS

AWS Certified Cloud Practitioner | AWS Certified Solutions Architect – Associate (In Progress)

EDUCATION

Bachelor of Science, Computer Science – Florida State University, 2020