elfOvations LLC

AI SOLUTIONS · SOLUTION ARCHITECTURE · WORKFORCE EXCELLENCE

info@elfovations.com · (917) 780-2425
Edison, New Jersey 08820 · www.elfovations.com

CAPABILITY STATEMENT · 2026

5 Years	80+	3	100+
YEARS IN BUSINESS	API ENDPOINTS (PROTOTYPE)	FEDERAL AGENCIES SUPPORTED	PROFESSIONALS PLACED (FDA)

COMPANY SNAPSHOT

UEI	YFA8MJM5G663
CAGE	125P9
SAM	Active · Expires Oct 2, 2027
Type	Small Business
NAICS	541512 (Primary)
Est.	2021 · 5 Years
Location	Edison, NJ
Options	Open market · Sub · Teaming · WOSB & EDWOSB set-aside (SBA Certified)

CERTIFICATIONS

- **Women-Owned Small Business**
  SBA Certified · Effective 06/10/2026
- **Economically Disadvantaged WOSB**
  SBA Certified · Effective 06/10/2026
- **Small Disadvantaged Business**
  Self-Certified
- **NJ SBE (Category 1) · MWBE · SEDB**
  State of NJ Certified · Oct 2026
- **SAM.gov Registered**
  Active · All Awards
- **GSA MAS SIN 54151S**
  Planned

NAICS CODES

541512 Computer Systems Design Services — Primary

Also: 541511 · 541519 · 541612 · 541690 · 561311 · 561312

WHO WE ARE

elfOvations LLC provides solution architecture, AI solutions, modernization, and technology workforce services to federal agencies. As a subcontractor, we currently support the Architecture Review Board at FDA's Center for Drug Evaluation and Research (CDER), working directly with its leaders on technology research, tool evaluations, and architecture decisions. Past performance includes FDA data integrity and AI work, solution architecture for the Department of Veterans Affairs (2021–2025), and AI strategy for the Department of Education's Federal Student Aid.

WHY CLIENTS CHOOSE ELFOVATIONS

- AI-assisted engineering: spec-driven, AI-agent-assisted delivery with senior review at every step
- Current FDA architecture advisory, with past work at VA and Education
- 80+ APIs and 12+ AWS services in a single multi-tenant platform
- Responsible AI by design: HITL controls, explainable outputs, audit trails
- Built for regulated environments: HHS compliance mapping
- Architecture-to-workforce capability under one engagement model

CORE CAPABILITIES

AI & Intelligent Solutions

- Generative AI & LLM integration
- Clinical NLP · Amazon Comprehend Medical
- Human-in-the-Loop (HITL) systems
- AI-assisted software engineering
- Intelligent workflow automation
- Compliance-aware AI design

Solution Architecture & Modernization

- Architecture review board advisory
- Technology & tool evaluations
- Legacy system assessment & modernization
- Multi-tenant SaaS platform architecture
- Cloud-native platform development
- Enterprise API integration (80+)

Program & Workforce Solutions

- Executive & leadership search
- Technical recruiting
- Federal & commercial staffing
- Full-cycle talent acquisition
- Program leadership & advisory
- Workforce planning & support

TECHNOLOGY ECOSYSTEM

AI / ML	Generative AI · Amazon Comprehend Medical · Clinical NLP · HITL Architecture
Frontend	Next.js 15 · React 19 · Tailwind CSS · shadcn/ui
Backend / APIs	FastAPI (Python 3.12) · PostgreSQL 16 · SQLAlchemy 2.0 · REST API Design
Cloud & DevOps	AWS (12 services) · AWS CDK · GitHub Actions / OIDC · Docker / ECR
Security	AWS Cognito / JWT · Row-Level Security · HHS DUA Policy
Platforms	Appian / OneNexus · Agile Delivery · Salesforce · ServiceNow

LEADERSHIP



Shweta Nagpal
Founder & President

Sole Member and Founder who manages all business operations including client contracts, invoicing, and payroll. Leads candidate sourcing and placement for technology staffing engagements, and holds final business authority over all contracts, teaming agreements, and financial commitments. Strategic HR executive with 10+ years in federal and commercial recruiting. 100+ professionals placed at FDA.



Ashish Nagpal
Chief AI & Solutions Architect

20+ years in enterprise architecture and AI delivery. Sr. Enterprise Architect (Key Personnel) supporting FDA CDER's Architecture Review Board, recognized by the FDA program team as Chief Architect. AI Consultant supporting the U.S. Dept. of Education (2025–2026). Led a multi-tenant data governance prototype end to end for a federal IT partner (12+ AWS services, 80+ APIs). Solution Architect supporting VA (2021–2025). All federal roles as a subcontractor. Earlier: 14 years at NBCUniversal.

FEDERAL PROJECT EXPERIENCE

01

Architecture Advisory for FDA's Architecture Review Board

Federal · Current

Work directly with the leaders of the Architecture Review Board at FDA's Center for Drug Evaluation and Research (CDER), helping the board research, evaluate, and decide on technology across CDER's systems.

KEY HIGHLIGHTS

- Research on emerging technologies: benefits, risks, and how to prepare
- Side-by-side tool evaluations to guide platform decisions
- System and solution architecture; legacy system assessments with proposed future-state designs

BUSINESS IMPACT

- Secure data-access guidelines for application teams, delivered and now in FDA review
- Recognized by the FDA program team as Chief Architect

02

AI-Enabled Clinical NLP for Federal Regulatory Review

Federal · Advisory

Designed and built an AI-assisted proof of concept for FDA that suggests SNOMED CT codes for clinical text, showing how a fully manual classification process can move to a Human-in-the-Loop workflow. We continue to advise on it.

KEY HIGHLIGHTS

- Amazon Comprehend Medical for clinical entity extraction; SNOMED CT APIs for real-time concept enrichment
- Human-in-the-Loop (HITL) controls: AI advises, human reviewers decide every time
- Weighted confidence scoring and explainable, auditable outputs

BUSINESS IMPACT

- Top 5 ranked, confidence-scored SNOMED candidates surfaced per clinical entity
- Standardized SNOMED mapping; escalated directly with AWS to improve Amazon Comprehend Medical

03

Workforce & Technology Solutions

Federal · Workforce

Delivered specialized technology workforce solutions at FDA, backed by Shweta's earlier commercial recruiting experience with Fortune 500 clients.

KEY HIGHLIGHTS

- Technical recruiting, executive search, and full-cycle talent acquisition
- Staffing at FDA; earlier commercial recruiting for J&J, KPMG, Schlumberger

BUSINESS IMPACT

- 100+ professionals placed at FDA
- Recruiting led by Shweta, with a part-time assistant and one offshore recruiter

PROTOTYPES AND DEMONSTRATIONS (NOT FEDERAL CONTRACT WORK)

04

Data Use Agreement Lifecycle Platform

Prototype

A multi-tenant SaaS prototype elfOvations led for a federal IT partner, managing the full lifecycle of Data Use Agreements, developed using a spec-driven, AI-agent-assisted pipeline ahead of a prospective FDA opportunity.

KEY HIGHLIGHTS

- 80+ REST API endpoints · 12+ AWS services · 9+ CDK stacks · 80%+ CI coverage gate
- HHS DUA Policy compliance mapping (HHS-OCIO-CDO-2023-01-001); digital signatures; append-only audit trail

BUSINESS IMPACT

- Spec-driven, AI-agent-assisted pipeline with senior architect review at every step
- Designed to replace email/spreadsheet DUA processes with an automated, compliance-ready workflow

FEDERAL PAST PERFORMANCE

All work as a subcontractor through Cognizance Technologies.

FDA, CDER	2026 – Present	Architecture Review Board advisory: technology research, tool evaluations, solution architecture
FDA, CDER	2024 – 2025	AI-assisted SNOMED CT proof of concept for clinical text (advisory since 2026)
Dept. of Education, FSA	2025 – 2026	AI Center of Excellence model and AI scope-of-work content
FDA, CDER (BIMO)	2022 – 2023	SME IT Project Manager (Key Personnel); data reconciliation framework across three systems
VA, Loan Guaranty	2021 – 2025	Solution architecture for three loan program modules, with designs approved by VA

info@elfovations.com · (917) 780-2425
© 2026 elfOvations LLC · elfovations.com

SCAN TO VISIT