CAPABILITY STATEMENT

TWO COILS LLC

Custom software, data and AI tools for public institutions

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COMPANY OVERVIEW

Two Coils LLC is a Texas small business, founded in 2022, that builds web applications, data pipelines and AI-assisted document tools. Founder David Thompson brings 6+ years of hands-on software and data experience. We work in short cycles, show working software early, and hand over the code and documentation at the end.

CORE COMPETENCIES

- **Custom web applications:** portals, dashboards, case-tracking and internal tools, built in Python (Django) with modern JavaScript.
- **Data engineering and analytics:** pull data from government and commercial APIs, clean it on a schedule, and turn it into reports and dashboards.
- **AI document automation:** read PDFs, Word and Excel files at scale; summarize, classify and draft with large language models, with a person checking the output.
- **Cloud deployment and modernization:** move spreadsheets and aging desktop tools to secure, containerized cloud web apps.
- **Systems integration:** connect agency systems through APIs and automate hand-offs that are done by hand today.
- **Scientific computing and verification:** reproduce published results, audit analysis code against inputs with known answers, and certify numbers in exact arithmetic.

DIFFERENTIATORS

- **We already work with federal data.** Synapse Discovery serves 200+ series straight from Treasury, the Federal Reserve, BLS and BEA, and The Fixed Basket is benchmarked against BLS CPI.
- **Owner-led delivery.** The person in the kickoff meeting is the person who writes the code.
- **Visible progress.** A working demo within 2 weeks of award, then a release every 2 weeks.
- **Security from day one.** CMMC Level 1 (Self) in progress. Company email runs on Google Workspace with 2-Step Verification enforced.

RELEVANT PROJECTS

Pure Report
News intelligence · pure.report
Groups news from many outlets into story threads, tracks how each emerges and fades, and flags coordinated coverage.

Synapse Discovery
Data platform · synapsediscovery.io
SEC filings, fund holdings and 200+ economic series from Treasury, the Fed, BLS and BEA, queryable by AI agents.

PlanRetirement.ai
Private by design · planretirement.ai
Monte Carlo retirement planning with federal and state taxes; data encrypted in the browser.

SIMARC
Research computing · simarc.org
Results certified in exact arithmetic, checksum-pinned datasets, and every result published with the test built to refute it.

MinutiaOS
Distributed systems · minutiaos.com
Decentralized cloud in Rust: NIST FIPS 204 signatures, Byzantine fault-tolerant consensus, erasure-coded storage.

The Fixed Basket
Public data · fixedbasket.org
Purchasing-power index across 52 geographies and 10 household types, compared with BLS CPI-U.

Also running: ivestr.io (fund research across 31,966 US funds) and employmentcharts.com (BLS employment and earnings dashboards).

COMPANY DATA

UEI
UVHQM7UEDJJ3

CAGE CODE
Pending DLA assignment

ORGANIZED
Texas limited liability company, 2022

BUSINESS SIZE
Small business

PRIMARY NAICS
541511 Custom Computer Programming Services

OTHER NAICS
541512 Computer Systems Design Services
541519 Other Computer Related Services
518210 Computing Infrastructure, Data Processing and Web Hosting
541611 Administrative and General Management Consulting

PSC CODES
DA01 Application development support
DA10 Application development as a service
DH01 Platform support: database and middleware

CYBERSECURITY
CMMC Level 1 (Self) in progress

PAYMENT
Government purchase card accepted

INDEPENDENT RESEARCH

Dark energy: audited a 340-script analysis with a known-answer calibration harness (50-test audit trail), and reproduced DESI's evolving dark-energy fit from public data.

Astrobiology: 87-experiment program, including molecular assembly index computation and JWST TRAPPIST-1 data reduced in-house.

Mathematics: certified bound with zero violations across 49,242 constraints (2026 preprint, DOI).