

Software, data, AI, and deployed systems for government missions

Upstream is a small, multidisciplinary engineering company that turns defined technical requirements into working systems. Our team spans full-stack software, data engineering, AI/ML, cloud infrastructure, systems integration, edge computing, and hardware-integrated deployment. Upstream works directly with government customers and alongside prime contractors — leading a defined requirement end to end or owning a focused technical scope within a larger team.

CORE CAPABILITIES

Custom software + digital products

Web applications, internal tools, operational dashboards, backend services, APIs, workflow systems, reporting, and administration tools.

AI/ML systems + automation

Model integration, evaluation pipelines, output QA, monitoring, computer vision, human-review workflows, decision support, and practical automation.

Cloud infrastructure + delivery

AWS infrastructure, storage, deployment tooling, environment configuration, monitoring, production migration, and cloud-based workflows.

Data engineering + analytics

Data pipelines, ETL, SQL/Python workflows, analytics, reporting, data quality, reconciliation, observability, and cloud data platforms.

APIs + systems integration

Backend services, third-party integrations, webhooks, events and queues, data exchange, workflow connections, and operational reliability.

Edge + hardware integration

Cameras, sensors, GPU inference, edge compute, networking, device setup, prototyping, field testing, installation, and production support.

HOW WE DELIVER

PRIME CONTRACT DELIVERY

Lead a defined government requirement directly, owning delivery from scope through deployment and support.

TEAMING + SUBCONTRACT

Own a bounded technical scope on a larger team, or add a flexible 1-3 person pod for task-order or surge support.

PROTOTYPE TO PRODUCTION

Validate quickly, integrate with real systems, and harden for operations.

SELECTED TEAM EXPERIENCE

- CrowdCount: Built and launched a live computer vision product across 25 pilot locations, including custom models, GPU inference servers, RTSP pipelines, hardware, dashboards, deployment, and customer operations.
- Upstream platform: Built deployed AI infrastructure covering system health, model workflows, reliability monitoring, event systems, APIs, integrations, and operational dashboards.
- Federal data systems: Team experience supporting CMS-aligned analytics, reporting, data platforms, and production migration work through RELI Group.
- End-to-end delivery: Experience across requirements, rapid prototyping, software development, hardware assembly, field installation, monitoring, debugging, customer coordination, and ongoing support.

COMPANY INFORMATION

Legal name: Upstream Vision Inc.
Business type: Small Business
Contract roles: Prime or subcontractor
Location: Boulder, Colorado
Website: upstreamcv.com/gov
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NAICS

541511 Custom Computer Programming
541512 Computer Systems Design
541519 Other Computer Related Services
518210 Computing Infrastructure / Data Processing
541330 Engineering Services

REPRESENTATIVE TECHNOLOGIES

Python • TypeScript • SQL • PySpark • Databricks • AWS • React / Next.js • APIs • ETL • Docker • CI/CD • edge compute • sensors + devices

TECHNICAL DELIVERY AS PRIME OR TEAMING PARTNER

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