



Ashley Johnson
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Capability Statement

POWERING MODERN SCIENCE THROUGH
CLOUD-DRIVEN SOFTWARE SOLUTIONS.



Company Profile

Cirrus Lake Solutions, LLC is a **software development and computer systems design services provider** delivering application development, backend systems, API development, and systems integration for organizations that require reliable, production-ready platforms.

We specialize in **custom computer programming services and computer systems design services**, supporting clients through application development, legacy modernization, and integration initiatives across cloud and hybrid environments. Our primary focus is on building maintainable, scalable, and operationally sound systems using secure software development practices.

Our engineering experience is **GCP-first**, with additional support for AWS and Azure environments as applicable.

Services Overview

Application & Backend Development: Design and development of scalable, production-ready applications and backend services supporting real-world operational needs. Our work includes full-stack web development as well as data-driven platforms.

API Development & Systems Integration: Design and implementation of APIs and system integrations that connect internal platforms, third-party tools, research systems, and enterprise applications—enabling automation, interoperability, and reliable data flow.

Architecture Design & Legacy Modernization: Assessment, redesign, and modernization of existing systems to improve maintainability, performance, and long-term viability without unnecessary replatforming. This includes modernization of legacy applications and backend systems.

Cloud Engineering & Platform Operations: Design and support of secure, compliance-ready cloud systems with a primary emphasis on Google Cloud Platform (GCP), and experience supporting AWS and Azure environments. Services include cloud architecture, cloud platform operations, and infrastructure automation.

DevOps & CI/CD Enablement: Implementation of DevSecOps services, CI/CD pipelines, and Infrastructure as Code (IaC) to improve release consistency, operational stability, and delivery speed.

Technical Project Management: Hands-on project management across multiple domains to align execution with business objectives, timelines, and delivery expectations.

Staff Augmentation: Provision of experienced software engineers, backend developers, and technical leaders embedded directly into client teams to accelerate delivery and close capability gaps.

Core Competencies

- Software Development Services
- Application & Backend Development
- Systems Integration
- API Development
- Architecture Design & Technical Planning
- Legacy Modernization
- Cloud Engineering & Architecture
- Cloud-Native Application Development
- CI/CD Pipeline Implementation
- DevOps & Delivery Enablement
- Technical Project Management
- Staff Augmentation & Embedded Engineering Support

Industry Experience

- Healthcare Technology
- Healthcare & Clinical Research Systems
- Data-Driven Platforms
- Technology & SaaS Organizations
- Google Cloud Generative AI Leader- Tony Petersen
- Google Cloud Generative AI Leader- Davin Johnson

Keywords

Software Development Services · Computer Systems Design Services · Cloud Engineering · Cloud Architecture · Cloud-Native Application Development · Secure Software Development · DevSecOps Services · CI/CD Pipeline Development · Backend Development · API Development · Systems Integration · Legacy Modernization · Full-Stack Web Development · Healthcare Technology · Technology Services Provider AI-Assisted Coding - Automated Quality & Feedback Next-Gen Engineering Practices - Intelligent Development Workflows

Differentiators

- **AI-Accelerated Development** - We utilize cutting-edge AI tools and agentic development processes to accelerate development cycles and pass on the benefits of increased speed and technical foresight to our clients.
- **True Partner Mentality** - Emphasis on clear communication and transparency to operate as an extension of our client's team, not a detached vendor
- **Balanced Technology Services Provider** - Full-stack development, systems integrations, and cloud implementation delivered as a cohesive solution
- **Security-Conscious Software Development** - Knowledge and awareness needed to ensure security from dynamic threats and vulnerabilities
- **Senior-Level Engineering Talent** - Direct access to experienced engineers and technical leaders
- **Flexible Engagement Models** - Project-based work, staff augmentation, and embedded support
- **Production-Focused Delivery** - Systems designed for long-term operation, not just launch

NAICS Codes

- **541511**-- Custom Computer Programming Services
- **541512**-- Computer Systems Design Services
- **541611**-- Administrative Management and General Management Consulting Services

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Past Performance

Case Study 1:

Secure Cloud Platform for Health Research

Client Type: Health Research Organization

Challenge: The client required a secure, cloud-based platform to support a large-scale health research initiative. The system needed to meet strict NIST and FISMA security regulations, scale reliably, and support ongoing development without operational instability.

Solution: Cirrus Lake Solutions designed and supported a cloud-native platform with secure serverless infrastructure, automated deployment pipelines, and production-grade operational controls, on Google's Cloud Platform. DevSecOps practices were embedded to ensure security and reliability throughout the lifecycle.

Results:

- Delivered a scalable, secure cloud environment
- Improved system stability and operational confidence
- Enabled ongoing development without disrupting production systems

Case Study 2:

Cloud Architecture Staff Augmentation for Emerging Platform

Client Type: Technology-Driven Organization

Challenge: Faced with aggressive growth targets and a fast-approaching production deadline, the client's internal team required immediate staff augmentation to bridge an engineering gap.

Solution: Cirrus Lake Solutions deployed a specialized team of engineers to augment the client's staff, quickly mastering their existing cloud environment to deliver mission-critical AWS infrastructure. Our team delivered end-to-end automation through IaC and ensured the system was production-ready, reliable, and scalable to meet the client's deadline.

Results:

- Provided immediate relief to client's engineering team
- Helped automate infrastructure using industry best practices
- Improved performance, uptime, and operational visibility

Case Study 3:

AI-Enhanced Engineering for Secure Research Systems

Client Type: Health Research Organization

Challenge: To meet security and longevity requirements for a large-scale health research platform, the team needed to accelerate development processes to modernize legacy components and ensure adequate testing coverage without delaying the production timeline.

Solution: Cirrus Lake Solutions integrated AI-assisted workflows into the engineering lifecycle to drive efficiency and quality while maintaining human-led oversight.

Results:

- Accelerated Refactoring: Reduced the manual effort required to modernize legacy research systems.
- Higher Code Quality: Caught potential vulnerabilities and edge cases earlier in the development cycle.
- Optimized Delivery: Improved developer velocity by automating repetitive tasks, allowing the team to focus on high-level architecture and security.