

Dylan Shepard

Engineering Manager | Cloud Infrastructure & Automation Expert | Public Sector Systems Expert
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Core Competencies

- **Engineering Leadership:** 4+ years managing platform engineering teams (12-62 engineers) • Product-minded approach to government software & data analytics solutions • Cross-functional collaboration with clients, sub-contractors, vendors, & internal teams
- **Public Sector Expertise:** DoD STIG & SRG compliance (IL2, IL5, IL6) • Federal security frameworks (FedRAMP equivalent) • Mission-critical software infrastructure for 250k+ government users • TS-SCI active clearance
- **Technical Architecture:** End-to-end GitOps & CI/CD • Multi-tenant cloud infrastructure design • Zero-trust security frameworks • Kubernetes at scale (EKS, multi-region deployments)
- **Cloud Infrastructure:** Multi-cloud expertise (AWS GovCloud, Google Cloud, Azure, Oracle) • Infrastructure as Code (Terraform, Helm) • AWS Certified Solutions Architect Professional
- **AI/ML Integration:** Lead engineer on internal AI model pilot • AI model deployment in secure government environments • ML workflows for data analytics programs
- **Programming & Automation:** Python, Terraform, Helm, Rust, Go • Automated deployment pipelines • Scalable system architecture

Professional Experience

Booz Allen (2021-present)

Senior Lead Platform Core Engineer (01/2025-present)
Senior Lead Cloud Migration Engineer (01/2024-12/2024)
Senior Lead Automation Engineer (03/2021-12/2023)

Engineering Management & Team Leadership:

- **Scaled platform engineering organization from 12 to 62 engineers across 6 development teams** for a critical DoD data analytics & machine learning program
- **Led cross-functional product delivery**, collaborating with executive program management, compliance, cybersecurity, & client stakeholders across DoD CDAO leadership levels
- **Established agile development frameworks** with quarterly milestones & biweekly epics aligned to contractual deliverables while minimizing tech debt
- **Mentored engineers at all levels**, providing career development opportunities, building technical independence, & developing next-generation team leaders

Government Scale Product Development:

- **Architected & deployed a program-wide migration** to multi-account, multi-region AWS GovCloud infrastructure supporting **250k daily users** across 3 secure partitions
- **Led end-to-end product strategy** for multi-tenant Kubernetes platform enabling full scale, rapid deployment of isolated mission spaces for secure data analytics
- **Designed compliance-first architecture** meeting DoD STIG requirements across IL2, IL5, & IL6 environments with continuous security monitoring

Technical Innovation & Architecture:

- **Built scalable platform infrastructure** using EKS, Terraform, GitLab, & Tekton CI/CD pipelines for mission-critical government applications

- **Created customized monitoring & management frameworks** supporting high-availability requirements for national security applications
- **Delivered technical consultation** to executive leadership, offering engineering value & building stakeholder trust across DoD organizations

AI/ML Platform Engineering:

- **Technical lead for internal AI model pilot program** identifying optimal use cases, security requirements, & compliance frameworks for government AI deployment
- **Integrated ML workflows** into secure platform infrastructure supporting data analytics across multiple classified data sources

Maxar Technologies (2018-2021)

Senior Cloud Infrastructure Engineer (02/2021-03/2021)

Cloud Infrastructure Engineer (03/2020-02/2021)

Staff Software Engineer (09/2019-03/2020)

Ground Systems Engineer (07/2018-09/2019)

- **Designed & deployed cloud infrastructure** for Mission Planning systems using AWS & Kubernetes (EKS) platforms
- **Automated satellite imagery production workflows** using Terraform, Terragrunt, & AWS services (Lambda, SQS, SNS, DynamoDB), **saving 15 engineering hours per week**
- **Led cross-functional product development** in Agile environment for satellite imagery production & delivery systems
- **Provided Tier III operational support** for mission-critical systems serving government & commercial customers

Early Career Progression

The Vertex Companies (Optistar Technology) - IT Systems Engineer (06/2017-06/2018)

Core Networks Group - Network IT Specialist (10/2016-05/2017)

NetApp Inc. - Business IT Analyst (2013-2016)

Education

University of Colorado, Boulder (2012-2016)

B.A. in Computer Science, Minor in Russian Language & Literature

Recognition

- **Chainguard Assemble Keynote Speaker** - 2025
 - DoD Data Program Case Study: Enhancing Security and Efficiency ([Video](#))
- **Living Our Values Everyday Diamond Award** - Booz Allen, 2025
- **Technical Excellence Award** - Booz Allen, 2024
- **Living Our Values Everyday Data & AI Innovation Award** - Booz Allen, 2024

Security Clearance

TS-SCI - Active Top Secret with Sensitive Compartmentalized Information clearance