

Matt Lydon

Senior Aerospace Solutions Architect

Amazon Web Services · Aerospace & Satellite Solutions

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ABOUT

Matthew is a Senior Aerospace Solutions Architect at Amazon Web Services and a member of the Aerospace and Satellite team. He has supported over 1,000 aerospace customers ranging from startups to enterprise, and works directly with C-suite executives to develop IT and GenAI strategies.

His technical focus is on applying cloud technologies for aerospace use-cases: including secure AI implementations for ITAR-restricted workloads, geospatial data management, HPC for computational fluid dynamics, engine test data processing, satellite communications, and ground station operations. Matthew leads Generative AI workshops for the aerospace industry and has presented on engine test data processing solutions.

Matthew began his AWS career in the seventh TechU cohort, supported public sector customers on the Central SA team, and now serves as a Senior Aerospace Solutions Architect on the Aerospace & Satellite industry team.

He is an active industry contributor, participating in the Space Northwest AI panel and mentoring startups through the Orbital Edge Accelerator program.

Matthew graduated from the University of South Florida in 2019 with a degree in Information Studies, concentrating in Data Science & Analytics.

EXPERIENCE

Oct 2026 – Present

Senior Aerospace Solutions Architect

Amazon Web Services (AWS) · Aerospace & Satellite Solutions

- Helping aerospace and manufacturing organizations effectively and responsibly adopt AI technologies by strategically building communities of practice and delivering enablement to teams across all skill and role levels
- Architecting cloud solutions to support ground station operations, LEO satellite constellations, space-domain awareness platforms, lunar exploration, and more
- Leading GenAI strategy and implementation for ITAR-restricted aerospace workloads
- Contributor to industry thought leadership events through participation in panels and technical publications

Apr 2022 – Sep 2026

Solutions Architect II

Amazon Web Services (AWS) · Aerospace & Satellite Solutions

- Supported 1,000+ aerospace companies with cloud infrastructure and technical architecture
- Advised C-suite leadership on IT strategy development and digital transformation initiatives
- Led GenAI strategy and implementation for ITAR-restricted aerospace workloads
- Developed and delivered technical presentations on engine test data processing solutions
- Facilitated Generative AI workshops for aerospace industry stakeholders
- Contributed as an aerospace industry panelist (Space Northwest AI), startup mentor (Orbital Edge Accelerator), and presenter at events (Space Symposium, SmallSat, SVSW, AWS Space Days, etc.)

Aug 2020 – Mar 2022

Associate Solutions Architect

Amazon Web Services (AWS) · Central SA

- Resident in the TechU program (Cohort 7)
- Supported large variety of customers across a wide breadth of AWS services.
- Served as initial technical advisor for 80+ small to medium size Aerospace customers.
- Dove deep into customer problems to recommend the best possible solutions.
- Educated customers and internal teams through immersion days and workshops.
- Created new tools and architectures to reduce time spent on repeatable tasks.
- Mentored incoming Cohort members and Internship cohorts.
- Vertical Apprenticeship with the Aerospace & Satellite industry team, helping customers find solutions for: management of geospatial data, HPC designs for performing computational fluid dynamics, and ground station operations.

Jan 2015 – Present

Web Development & Consulting

Self-Employed Small Business

- Cloud-Based Server Administration (Amazon Web Services, Bitnami LAMP Server)
- Web Server Hosting (Windows Server 2018)
- DNS Management with CloudFlare and AWS Route 53
- Front-End Website Design (HTML, CSS, JavaScript, NodeJS)
- Back-End Web Application Development (PHP, MySQL Database Management)
- Control Panel / Dashboard Development
- Integrated Payment Systems with Stripe API

Jul 2018 – May 2019	Lead Graphic Designer USF Center for Student Involvement • Lead a team of designers to produce marketing materials for university events. • Develop workflow systems to increase communication and productivity of team. (Order requests, customer feedback, timeline management). • Hold weekly team meeting to review work progress, goals, and planning. • Communicate teams needs and responsibilities with upper-level management and university board members. Conveyed leadership goals, objectives, & projects to team. • Design graphics and video for university using Adobe Creative Suite (Illustrator, InDesign, Photoshop, After Effects, and Premiere). • Event Management (Large Concerts, Board Meetings, Athletic Events, Lectures, etc.)
Apr 2019	Production Assistant Sound & Vision Communications, Inc.
Jul 2016 – Jul 2018	Graphic Designer USF Center for Student Involvement
Summer 2017	FDOT Surveying & Office Assistance SRD Engineers Inc

EDUCATION

Dec 2019	Bachelor of Science in Information Studies Concentration in Data Science & Analytics from the University of South Florida Studies and Projects provided experience in: • Dataset preparation, cleaning, and validating. • Developing machine learning models through training, testing, & validating using large datasets. • Comparing and testing models against a baseline to develop improved machine learning models. • Understanding model results and using results to assist in meaningful decision-making. • Visual Peer Review Application Development
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CERTIFICATIONS

2025, 2022	AWS Certified Solutions Architect Professional · Amazon Web Services
2021	AWS Certified Solutions Architect Associate · Amazon Web Services
2021	AWS Certified Cloud Practitioner · Amazon Web Services
2021	AWS Tech U Graduate · Amazon Web Services
2021	AWS Partner: Accreditation (Technical) · Amazon Web Services
2015	Autodesk AutoCAD Certified User · Autodesk
2014	Adobe Certified Associate in Visual Communication Using Adobe Photoshop · Adobe

PUBLICATIONS

Video	AWS re:Invent 2023 – Rocket science: Process, store, and analyze engine test data on AWS (AES304) https://www.youtube.com/watch?v=QoalHifJLQ
Code	vue-quick-deploy – CloudFormation Template. https://github.com/Mpfk/vue-quick-deploy
Code	appLaunchpad – Terraform starter pack which provides the foundational elements of a web app. https://github.com/Mpfk/appLaunchpad
App	Parks Passport App https://www.parks-passport.app

REFERENCE

Matt was the type of student leader who was fully invested. He served as a graphic designer with the Center for Student Involvement at the University of South Florida for much of his time as a student. We saw Matt grow as a student leader to be a key voice for team relations, team community, and advancing marketing and graphic standards. Matt, helped us think boldly about our programs and strategies for reaching students. He merged his passion for Information Technology with his passion for marketing and graphics and the combination was an impressive feat. Any organization considering Matt would be lucky to have him on their team.

Joshua Wilson, Associate Director, Center for Student Involvement, University of South Florida, 2019