

JOEL ASANTE

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PROFESSIONAL EXPERIENCE:

Amazon Web Services (AWS) – Amazon Inc

Austin, TX

January 2022 – Present | Tenure Timeline: Intern → Associate → Mid-Level → Senior (in 4 years)

Sr. Solutions Architect – GovTech & Enterprise ISV | March 2026 – Present

- Authored [AWS Certified Generative AI Developer – Professional](#) exam questions as a [Subject Matter Expert \(SME\)](#), defining global AWS AI/ML competency standards.
- Established GovTech SA framework for strategic proposals and account plans; built custom GenAI tool automating asset creation across the organization.
- Architected enterprise cloud solutions for high-growth GovTech ISVs meeting CJIS and FedRAMP High standards at scale.
- Drove C-suite AI roadmaps from PoC to production-grade Agentic workflows automating regulatory and compliance processes.

Solutions Architect II – GovTech & Enterprise ISV | September 2023 – March 2026

- Named [Top Gun Solutions Architect – 2025](#), #1 performer in 450-person Worldwide Public Sector SLG/EDU org for revenue impact and customer success.
- Authored AWS's first Salesforce MCP server, enabling 3,000+ field sales to manage accounts via natural language, eliminating manual system switching.
- Architected 100+ cloud solutions driving \$32.1M+ closed revenue (2023-2025) with 4.56/5.0 CSAT and 40% faster customer time-to-production.
- Exceeded sales quotas at 109.8% (2023) and 104% (2024) through architectural reviews, solutions and advocacy across 65+ enterprise accounts.
- Delivered high-impact AI solutions using Bedrock, Data Automation, AgentCore, and SageMaker—spanning document processing, computer vision, compliance validation, RFP automation, fraud detection, California's "Race Blind" charging system, and many more.
- Built custom PromptFoo evaluation frameworks for benchmarking foundation models (Claude, Llama, Mistral, GPT) and operationalizing red-team testing against prompt injection and data leakage.
- Established thought leadership through technical blogs (50K views), presentations to 200+ SAs, and [speaking at AWS conferences](#) (re:Invent, DC Summit, NYC Summit).

Solutions Architect I – Worldwide Public Sector (SLG, EdTech & FedCiv) | January 2022 – Sept 2023

- Engineered the [AWS Education Landing Zone](#), the first standardized multi-account governance framework for global EdTech providers; automated FERPA/SOC2 compliance at scale for millions of learners.
- Led cloud modernization for Federal Civilian agencies, migrating mission-critical legacy workloads to high-security AWS environments under strict regulatory mandates.
- Spearheaded AI/ML Education Initiatives through regional [DeepRacer Programs](#) and hackathons, training hundreds of students on reinforcement learning.

Solutions Architect Intern – Worldwide Public Sector (DoD Project) | Summer 2021

- Engineered Secure Kubernetes (EKS) Environment for high-priority DoD engagement, migrating from legacy configurations to automated cloud ecosystem.
- Delivered production-ready IaC and K8s Dashboards aligned with IL4/5 security protocols, providing real-time cluster health visualization to DoD stakeholders.

TECHNICAL LEADERSHIP & PRODUCT ENGINEERING:

Robotics & Automation Lead Programmer - National Institute for Aviation Research

Wichita, KS

February 2020- December 2021

- Programmed advanced SLAM (Simultaneous Localization & Mapping) algorithms for Autonomous Mobile Robots (AMR), enabling precision navigation for partners like Spirit AeroSystems and Deloitte.
- Designed a custom application that sends API calls to AMRs, streamlining communication between software controllers and hardware units in aerospace manufacturing.

Lead Application Developer - City of Wichita Police Department

Wichita, KS

January 2021- December 2021

- **Concept to Deployment:** Identified a gap in community policing where citizens frequently lost physical resource cards; conceptualized and deployed a mobile resource platform (iOS/Swift/GCP) that achieved full department-wide adoption.
- **Public Impact:** Enabled officers to digitally transmit critical resource data (shelter, mental health, food) via SMS, Email, or QR codes, measurably improving the "last mile" of social service delivery.
- Resulted in the full adoption in the department – [News Article](#).

Competition Team Lead – [Make48- PBS Channel](#)

Competition

- Led team of four in a 48-hour invention competition, designing and building a composting garden tool for Make48 on the PBS channel
- Placed 2nd out of 11 teams in regional competition.

CERTIFICATIONS

[AWS Golden Jacket \(all AWS Certifications\)](#)

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| • AWS Certified Cloud Practitioner | Amazon Web Services |
| • AWS Certified AI Practitioner | Amazon Web Services |
| • AWS Certified Solutions Architect – Associate | Amazon Web Services |
| • AWS Certified Developer – Associate | Amazon Web Services |
| • AWS Certified SysOps Administrator – Associate | Amazon Web Services |
| • AWS Certified Machine Learning – Associate | Amazon Web Services |
| • AWS Certified Data Engineer – Associate | Amazon Web Services |
| • AWS Certified Solutions Architect – Professional | Amazon Web Services |
| • AWS Certified DevOps – Professional | Amazon Web Services |
| • AWS Certified Security – Specialty | Amazon Web Services |
| • AWS Certified Data Analytics – Specialty | Amazon Web Services |
| • AWS Certified Machine Learning – Specialty | Amazon Web Services |
| • AWS Certified Database – Specialty | Amazon Web Services |
| • AWS Certified Database – Networking | Amazon Web Services |
| • AWS Partner: All Partner Certifications | Amazon Web Services |
| • Robot Operating System (ROS) Code Foundation | The Construct |

EDUCATION

Bachelor of Science in Computer Science

December 2021

Wichita State University

Master of Science in Computational Data Analytics

December 2027

Georgia Institute of Technology

CORE COMPETENCIES & SKILLS

AI & Machine Learning:

- Large Language Models: Claude (Anthropic), Amazon Bedrock, Amazon Nova, Llama 3, GPT (OpenAI).
- Architectures: Agentic AI Workflows, Model Context Protocol (MCP), RAG, Prompt Engineering, AgentCore.
- Evaluation & Security: PromptFoo LLM Benchmarking, Automated Red-Teaming, Model Latency/Token Optimization, Guardrails.

Engineering & Infrastructure:

- Cloud Platforms: AWS (Golden Jacket), Google Cloud Platform (GCP), Azure.
- DevOps & Containers: Kubernetes (Amazon EKS), Docker, Terraform, AWS CDK, CI/CD (GitLab/GitHub), Agile/Scrum.
- Operating Systems: Linux (Ubuntu/Debian), macOS, Windows Server.
- Development: Python (Advanced), TypeScript, Swift (iOS), Dart, Flutter, C++, SQL, ROS1/ROS2.

Regulated Industries & Compliance:

- Federal & Defense: FedRAMP (High/Med/Low), DoD IL4/IL5, ITAR, CJIS, FISMA.
- Global Privacy & Healthcare: GDPR, HIPAA, FERPA, SOC2.
- Sectors: GovTech, Federal Civilian (FedCiv), Global EdTech, Energy & Utilities.

Technical Delivery & Languages:

- Strategic Leadership: SOW Scoping, AWS Certification SME, Executive Stakeholder Management.
- Languages: English (Native/Professional), Twi (Fluent), Nzema (Fluent).