



Stella Massey

Principal Software Engineer

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SUMMARY

Principal Software Engineer with 10 years delivering cloud native enterprise platforms, full stack applications, **secure APIs**, **workflow automation**, and production systems on AWS. Leads architecture decisions from requirements through deployment and production support, partnering with product owners, architects, **infrastructure teams**, **business stakeholders**, and engineers. Builds serverless, microservice, and event driven solutions with Lambda, API Gateway, ECS and EKS, S3, DynamoDB, RDS, EventBridge, SQS, SNS, Terraform, and CloudFormation. Develops Amazon Bedrock solutions using retrieval augmented generation, prompt engineering, model orchestration, governance, responsible AI, and protected enterprise data. Delivers Appian interfaces, process models, integrations, and business rules. Guides reviews, testing, incident resolution, documentation, security, and technical standards while balancing reliability, performance, cost, and delivery speed.

EXPERIENCE

Principal Software Engineer

Potomac Cloud Works 📅 January 2023 - Present 📍 Arlington, VA

Leads enterprise AWS architecture, full stack delivery, secure API development, Amazon Bedrock initiatives, **infrastructure as code**, production operations, and technical direction for cross functional engineering teams.

- Led AWS **architecture reviews**, defining service boundaries and security controls for production ownership.
- Built **RESTful APIs** with authentication and **rate limiting**, improving integration reliability across enterprise services.
- Delivered Bedrock knowledge assistant using **RAG** and **prompt engineering**, supporting governed content discovery.
- Applied Terraform and CloudFormation within CI/CD, making infrastructure changes repeatable and reviewable.
- Directed code reviews, testing, incident analysis, and documentation across cross functional engineering teams.
- Translated stakeholder requirements into designs balancing reliability, performance, security, cost, and delivery speed.

Senior Software Engineer

Blue Ridge Application Systems 📅 March 2020 - December 2022 📍 Reston, VA

Led workflow focused **full stack engineering** across responsive interfaces, backend services, Appian automation, enterprise integrations, CI/CD, and production quality practices.

- Led full stack delivery for workflow applications, connecting responsive interfaces with backend services.
- Built RESTful and **event driven APIs**, improving traceability across multi step case workflows.
- Created **Appian interfaces** and **process models**, clarifying ownership across complex business operations.
- Connected Appian integrations and **business rules** with enterprise APIs, reducing manual case handoffs.
- Strengthened Terraform and CloudFormation delivery pipelines, supporting repeatable infrastructure changes across environments.
- Presented **architecture** tradeoffs during reviews, aligning engineers and stakeholders around sustainable designs.

Software Engineer

Commonwealth Digital Labs 📅 July 2017 - February 2020 📍 Fairfax, VA

Delivered **AWS** application platforms and integration services, selecting cloud components for workload needs while supporting APIs, event flows, automation, testing, and operational ownership.

STRENGTHS

- 🏗️ **Architecture Direction**
Set clear service boundaries during AWS reviews. Teams gained confidence in security, ownership, and long term maintenance.
- ♥️ **API Delivery**
Built secure RESTful and event driven integrations. Partners received dependable interfaces with clearer failures and access controls.
- 💡 **AI Application Design**
Shaped a Bedrock knowledge assistant with RAG and governed content. Careful evaluation kept answers useful and controlled.
- ⚙️ **Workflow Automation**
Connected Appian processes with enterprise APIs. Case work became easier to trace, and handoffs felt less fragmented.
- 👥 **Production Leadership**
Led reviews and incident analysis across teams. Peers sought practical guidance when reliability or delivery tradeoffs surfaced.

SKILLS

AWS Appian Amazon Bedrock

RAG Prompt Engineering

RESTful APIs Event Driven APIs

Full Stack Development

Cloud Architecture API Security

CI/CD Terraform CloudFormation

Incident Resolution

Technical Leadership

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



- Principal Software Engineer at Potomac Cloud Works (3.7 Years)
- Senior Software Engineer at Blue Ridge Application Systems (2.8 Years)
- Software Engineer at Commonwealth Digital Labs (2.6 Years)
- Associate Software Engineer at Shenandoah Web Systems (1 Years)

- Implemented Lambda and **API Gateway** services, supporting scalable request processing for **enterprise applications**.
- Connected ECS and EKS workloads with S3, **DynamoDB**, and RDS for durable data services.
- Built **EventBridge**, SQS, and SNS integrations, improving asynchronous communication across application boundaries.
- Applied Terraform and CloudFormation practices, making **deployment** changes easier to review and recover.
- Supported architecture reviews, integration testing, production incidents, and technical documentation for delivery teams.
- Translated business requirements into service designs, clarifying performance and security tradeoffs for stakeholders.

Associate Software Engineer

Shenandoah Web Systems 📅 June 2016 - June 2017 📍 Richmond, VA

Supported AWS application delivery, API integration, infrastructure automation, testing, documentation, and production operations while building early expertise across enterprise software platforms.

- Supported **Lambda** and API Gateway implementations, delivering dependable services for internal application workflows.
- Developed RESTful and event driven **integrations**, improving communication between application components.
- Configured **S3**, DynamoDB, and **RDS** resources for application storage and retrieval needs.
- Contributed Terraform and CloudFormation updates, keeping infrastructure changes consistent across environments.
- Participated in **code reviews**, testing, incident analysis, and documentation with senior **engineers**.
- Converted stakeholder requirements into implementation notes, helping teams resolve delivery questions earlier.

PROJECTS

Bedrock Knowledge Assistant 📅 2026

Created a governed enterprise assistant with Amazon Bedrock, RAG, prompt engineering, model orchestration, evaluation practices, responsible AI controls, and protected data handling.

Appian Workflow Modernization 📅 2024

Modernized case workflows through Appian interfaces, process models, integrations, and business rules connected with secure enterprise APIs.

LEADERSHIP & AWARDS

- Architecture Leadership Recognition, Potomac Cloud Works, acknowledged for guiding sustainable AWS platform decisions.
- Engineering Quality Recognition, Blue Ridge Application Systems, recognized for improving reviews, testing, and delivery practices.
- Technical Mentorship Leadership, Commonwealth Digital Labs, recognized for supporting peer development and clear design communication.

EDUCATION

Bachelor's Degree in Computer Science

Virginia Commonwealth University 🎓 GPA: 0 📅 2016 📍 Richmond, VA

Coursework: *Software engineering, database systems, computer networks, operating systems*

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate 📅 2025
- AWS Certified Solutions Architect - Professional 📅 2026

TECHNICAL SKILLS

- **AWS Compute:** Lambda, ECS, EKS
- **AWS Integration:** API Gateway, EventBridge, SQS
- **AWS Messaging:** SNS, SQS, EventBridge
- **AWS Storage:** S3, DynamoDB, RDS
- **Application APIs:** REST, authentication, authorization
- **Amazon Bedrock:** Foundation models, RAG, prompt engineering
- **Appian Platform:** Interfaces, process models, business rules
- **Infrastructure as Code:** Terraform, CloudFormation, AWS CDK
- **Delivery Practices:** CI/CD, unit testing, integration testing
- **Security Engineering:** Rate limiting, data security, responsible AI
- **Architecture Methods:** AWS Well Architected Framework, microservices, serverless
- **Operations:** Monitoring, incident resolution, production support

PROFESSIONAL AFFILIATIONS

- AWS User Group, Northern Virginia participant focused on cloud architecture and platform engineering.
- Appian Community, member engaged with workflow automation, integrations, and process design.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST