

Robert T. Owens

Senior AWS / Cloud Backend Engineer

Remote | Jacksonville, FL | 904-234-4912 | rowens@rtosolutions.com

PROFESSIONAL SUMMARY

Senior AWS Engineer with 20+ years of backend and enterprise systems experience, specializing in AWS-native serverless and data-driven architectures for regulated industries. Proven track record designing, building, and operating production AWS systems using Lambda, API Gateway, SQS, DynamoDB, Aurora MySQL, RDS, and S3 with Python and .NET. Recent hands-on work includes FHIR R4 healthcare platforms, ETL pipelines, and API-driven data architectures. Strong compliance background across HIPAA and financial data protection. Available for remote contract engagements. Dual US/Czech (EU) citizen — authorized to work in the US and EU without sponsorship.

TECHNICAL SKILLS

AWS (Primary): Lambda · API Gateway · SQS · S3 · DynamoDB · Aurora MySQL · PostgreSQL · RDS · EC2 · Athena · QuickSight · CloudWatch · IAM

Languages: Python · C# / .NET · SQL · Java

APIs & Integration: REST APIs · FHIR R4 · Swagger/OpenAPI · JSON · Postman · Medplum · Flask

Databases: Aurora MySQL · PostgreSQL · DynamoDB · SQL Server · Oracle · DB2

DevOps & Tooling: GitHub · Docker · Jenkins · Jira · Confluence · Fortify · ADO

Compliance: HIPAA · Financial Data Protection · Voltage Security · Fortify Remediation

PROFESSIONAL EXPERIENCE

ICHOM — Remote (Part-Time Contract)

Senior Technical Developer | *Early 2024 – Present*

- **FHIR R4 Platform:** Architected and built a cloud-native FHIR R4 platform on AWS (Lambda, API Gateway, RDS MySQL, S3) for publishing and consuming ICHOM health outcomes standard sets.
- **Serverless APIs:** Delivered three production Lambda APIs (Python) — getconcepts, getquestionnaires, getplandefinitions — integrated with a Flask/Apache web application and Swagger UI.
- **Data Pipeline:** Built end-to-end ETL pipeline ingesting Synthea synthetic patient data into self-hosted Medplum FHIR server, transforming to Parquet via S3/Athena, and visualizing in QuickSight dashboards.
- **Database & DevOps:** Managed RDS MySQL (upgraded 8.0 → 8.4), S3 data stores, EC2/Docker deployments; maintained ichom-org GitHub organization and CI/CD workflows.

Transflo — Remote

Senior AWS Engineer (Senior Intelligent Automation Engineer) | *January 2021 – April 2025*

- **Serverless Architecture:** Designed, built, and supported production AWS serverless systems using Lambda (Python and .NET), API Gateway, SQS, S3, DynamoDB, and Aurora MySQL.
- **REST APIs:** Developed and maintained RESTful APIs with Swagger/OpenAPI documentation supporting secure integrations across internal platforms and external partners.
- **Event-Driven Pipelines:** Implemented SQS + Lambda event-driven data pipelines for high-volume asynchronous document and data processing workloads.
- **C# WinForms Tooling:** Built monitoring and administrative tooling using C# WinForms and Windows services to support AWS workloads and operational visibility.
- **SaaS Integration:** Integrated Hyperscience SaaS platform into AWS-based workflows for automated document processing.

Cognizant / Voya Financial — Remote

Senior Project Leader / Senior Engineer | *July 2017 – January 2021*

- **Financial Platform APIs:** Developed .NET Core REST APIs supporting education loan and 401(k) transaction processing for large-scale regulated financial platforms.
- **Security & Compliance:** Implemented data encryption/decryption using Voltage Security APIs; led Fortify security remediation improving application security posture across distributed systems.

- **AWS Adoption:** Supported early AWS migration initiatives for financial services modernization; worked across ServiceNow and Salesforce CRM in regulated environments.

EDUCATION & CERTIFICATIONS

Master of Business Administration — Finance — Webster University, Jacksonville FL

Bachelor of Science, Computer Science (Minor: Mathematics) — Northern Illinois University, DeKalb IL

Certifications:

- AWS Certified Cloud Practitioner
- Six Sigma Black Belt