Matthew Sweeney

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4x AWS-Certified Solutions Architect Professional with a B.S. in Data Analytics from SNHU, specializing in serverless architecture, systems design, and full-stack development. Designs, develops, and deploys solutions across AWS, Azure, and on-premises environments, with a focus on scalable, asynchronous microservices, hybrid cloud connectivity, and enterprise-grade identity and access management. Skilled in designing data-driven solutions through data modeling and schema design, and in optimizing databases with indexing strategies and query tuning. Plans and executes migrations from legacy systems to serverless architectures, enhancing maintainability, performance, and cost efficiency. Experienced in building highly available, fault-tolerant applications across hybrid environments, demonstrating the adaptability and technical depth to drive innovation, accelerate modernization, and deliver lasting business value.

Education and AWS Certifications

B.S in Data Analytics - GPA 3.5	https://parchment.com/u/award/c7a9f3070688e6cf24c38d374c318aa3
Solutions Architect Professional	https://credly.com/badges/81785049-8ee4-4c60-9154-e58e91298c09
Developer Associate	https://credly.com/badges/74d9f1a2-48bc-4a05-a6de-6314b8ccf274
SysOps Administrator Associate	https://credly.com/badges/6bfedc43-9bbc-4a87-952a-1f9ccf1d74c6

Resume Projects

https://api-limit-throttler.vercel.app

Developed a comprehensive IaC solution that automates the deployment, scaling, and monetization of any user-provided API service. Utilizes AWS SAM to provision a CloudFormation stack with authentication via Cognito, API Gateway usage plans, Lambda-powered billing and subscription logic, DynamoDB for managing API keys, usage, and billing records, and asynchronous event handling using SNS, SQS, EventBridge, and DynamoDB Streams—operated through a React-based management service hosted on S3 and distributed through CloudFront.

https://kinesis-tutorial.vercel.app

Created a real-time streaming and polling application where client-side interactions trigger, visualize, and animate data flow ingested by Kinesis Data Streams. Lambda functions invoked through API Gateway send and poll event metadata, while DynamoDB tracks shard iterators. This project aims to demystify and break down the mechanics of data streaming, shard management, stream scaling, and consumption patterns.

https://global-chat-docs.vercel.app

Built a WebSocket-based chat platform with real-time messaging and notifications. Features a responsive React frontend with complex state orchestration, session-aware logic, reconnection handling, and user tracking—backed by a custom Socket.IO server for scalable, event-driven messaging. Deploys to an AWS EC2 instance using a preconfigured user data script, with both services orchestrated via Docker Compose.