

Michael Crispen

📍 Sharon, Pennsylvania ✉ mcrispen@crispywebservices.com ☎ (724) 988-8754
🌐 <https://www.crispywebservices.com>

Professional Summary

Application & Solution Architect with 7+ years designing end-to-end application architectures for enterprise and back-office systems. Expertise in logical, physical, and reference architecture design; process flows, data flow diagrams, and solution blueprints; relational and NoSQL data modeling; API and integration patterns; and identity and access management. Proven ability to align architecture to business capabilities across multiple lines of business, diagnose root-cause performance issues across applications, databases, and infrastructure, and guide teams through architectural decisions and trade-offs.

Experience

Independent Contractor, Cloud / Application Architect

March 2025 – Present

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- Designed end-to-end application and cloud-native architectures, producing solution blueprints, process flows, and data flow diagrams (Draw.io / Lucidchart) aligned to business capabilities across multiple lines of business.
- Led provisioning and governance of AWS infrastructure (EC2, VPC, IAM, storage) using least-privilege principles.
- Automated infrastructure using AWS CloudFormation and CDK, enabling standardized, repeatable, and auditable deployments.
- Contributed to the architecture and deployment of a global Metaverse platform, supporting distributed users and scalable workloads.
- Architected and delivered a high-volume Ledger system, migrating 800+ TB of data from DynamoDB to S3 Tables, achieving 97% cost reduction while preserving data integrity and query performance.
- Developed conceptual, logical, and physical data models and standardized reference architectures to improve consistency and reduce integration gaps across platforms.
- Guided engineering teams through architectural decisions and trade-offs, identifying integration and automation opportunities across the application portfolio.

Professional Services Cloud Application Developer

July 2019 – March 2025

Amazon Web Services (AWS)

- Served as a senior technical advisor for enterprise customers, designing secure, scalable, and highly available AWS architectures.
- Architected and delivered Linux and Windows backend platforms using EC2, Auto Scaling, load balancing, and managed AWS services.
- Designed and implemented CI/CD pipelines (CodePipeline, Jenkins) to automate build, test, and

deployment workflows, reducing deployment failures and increasing release velocity.

- Monitored system health and diagnosed root-cause problems across applications, databases, and infrastructure, performing proactive and preventative maintenance to improve performance and eliminate downtime.
- Partnered with architects, DevOps teams, and executive stakeholders to translate business requirements into production-ready cloud solutions.
- Implemented identity and access management (SSO, SAML, OIDC) and REST / event-driven API integration patterns to standardize secure access and connectivity across enterprise applications.
- Designed and built scalable, full-stack applications from end to end, collaborating directly with engineering and C-suite teams to align technical solutions with business objectives.
- Led a delivery team supporting AAA game studios, streamlining deployment workflows and reducing go-to-market time.
- Designed and deployed serverless architectures using Lambda, API Gateway, and DynamoDB, significantly reducing infrastructure overhead and cost.
- Delivered 20+ technical workshops to enterprise stakeholders, accelerating cloud adoption across multiple sectors.

Skills

Application & Solution Architecture: End-to-end application architecture; logical, physical & reference architecture design; process flows, data flow diagrams, solution blueprints; architecture trade-off analysis; Draw.io, Visio, Lucidchart

Cloud Platforms: AWS (EC2, EKS, Lambda, S3, RDS, DynamoDB, VPC, IAM, Route 53, API Gateway), Azure; high-availability, scalable cloud-native design; cost & performance optimization

Integration & APIs: REST, gRPC, WebSockets; API gateways; event-driven & messaging patterns; enterprise application integration; Java / Spring Boot, Node.js, FastAPI, Python, TypeScript, C#, Go

Data & Databases: Data modeling (conceptual, logical, physical); SQL Server, PostgreSQL, MySQL (T-SQL, query optimization, indexing); ETL / SSIS-style data integration; MongoDB, DynamoDB, Redis

Identity & Security: SSO, SAML, OAuth / OIDC; identity & access management; AWS IAM; DevSecOps, secure CI/CD; governance, risk & compliance awareness

Performance & Observability: Application performance monitoring & optimization; root-cause analysis across application, database & infrastructure; CloudWatch, logging & metrics; proactive / preventative maintenance

AI/ML & Automation: AI/ML solution patterns; workflow automation; integration gap analysis; DevOps automation (Docker, Kubernetes, Terraform, CloudFormation, Jenkins, GitHub Actions)

Delivery & Leadership: Guiding teams through architectural decisions & trade-offs; architecture & code reviews; vendor & SOW liaison; technical project management; Agile/Scrum; technical mentorship

Education

Edinboro University of Pennsylvania, BSc in Computer Science

- Minor in Business Administration