

Michael Crispen

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Professional Summary

Senior Cloud & Data Architect with 6+ years of hands-on experience designing and delivering scalable, secure, cloud-native architectures on AWS. Specialized in backend systems, NoSQL data platforms, and DevOps automation.

Experience

Independent Contractor, Cloud / Application Architect

March 2025 – Present

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- Designed and optimized cloud-native architectures emphasizing high availability, security, performance, and cost efficiency.
- 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.

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.
- Built and maintained scalable, full-stack applications aligned to client technology stacks and enterprise standards.
- Partnered with architects, DevOps teams, and executive stakeholders to translate business requirements into production-ready cloud solutions.
- Built and maintained scalable, full-stack applications using the client's technology stack AWS services for enterprise clients.
- 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

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

Backend & APIs: Python, TypeScript, JavaScript, Go, Java, C#; FastAPI, Node.js, Express, Spring Boot, React; distributed systems; REST, gRPC, WebSockets

Data & Databases: MongoDB (schema design, indexing, performance optimization), DynamoDB, PostgreSQL, MySQL, Redis; data modeling for scalable systems

DevOps & Platform Engineering: Docker, Kubernetes, Terraform, CloudFormation, Jenkins, GitLab CI/CD, GitHub Actions, AWS CodePipeline; automated deployments and release reliability

Observability & Security: CloudWatch, logging and monitoring, incident response; AWS IAM, DevSecOps best practices, secure CI/CD pipelines

Delivery & Leadership: Architecture and code reviews, Agile/Scrum, Technical mentorship

Education

Edinboro University of Pennsylvania, BSc in Computer Science

- Minor in Business Administration