

# Michael Rodriguez

Software Engineer & Cloud Architect

Full-Stack Development ♦ DevOps ♦ Cloud Solutions ♦ Technical Leadership

## PROFESSIONAL SUMMARY

Experienced software engineer with 8+ years developing scalable applications and leading engineering teams. Strong expertise in cloud architecture, DevOps practices, and building resilient microservices. Proven track record of improving system performance and mentoring junior developers.

*Passionate about creating elegant solutions to complex problems*

This resume highlights my progression from individual contributor to technical leadership roles, showing my growth in both technical depth and team management.

## Highlights

- Architected and implemented serverless solutions resulting in 40% cost reduction.
- Led migration from monolith to microservices architecture.
- Published articles on best practices in cloud-native development.
- Received company-wide recognition for mentoring program.
- Contributed to multiple open-source projects.

## Personal Interests

When not coding, I enjoy hiking, playing chess, and experimenting with home automation projects.

## TOP SKILLS

JavaScript | TypeScript | React | Node.js | AWS | Docker | Kubernetes | CI/CD | Python | System Design

## WORK EXPERIENCE

### Amazon Web Services

#### Senior Cloud Solutions Architect

January 2021 - Present / Seattle, WA (Remote)

##### Key Skills:

Cloud Architecture • AWS • Terraform • Kubernetes • Docker • CI/CD • Python • TypeScript • Solution Design • Technical Leadership

##### Summary:

Design and implement enterprise-scale cloud solutions for Fortune 500 clients, focusing on containerization, serverless architecture, and infrastructure as code.

- Architected serverless data processing pipeline reducing client operational costs by 35%.
- Lead technical discovery workshops with engineering leadership to identify optimal cloud solutions.
- Created comprehensive migration strategies from on-premise to cloud for 3 enterprise clients.
- Mentored 5 junior architects on cloud best practices and solution design.
- Developed custom CI/CD workflows using AWS CodePipeline, GitHub Actions and Terraform.
- Published internal whitepapers on microservice architecture patterns.

##### Project/Client: Financial Services Industry Client (~8 months)

Led design and implementation of a secure, compliant cloud infrastructure for a major financial institution.

- Designed hybrid cloud architecture meeting strict regulatory requirements.
- Implemented infrastructure as code using Terraform and AWS CDK.
- Created automated security compliance reporting dashboards.
- Reduced deployment time from weeks to hours with automated pipelines.

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### Microsoft

#### Senior Software Engineer

March 2018 - December 2020 / Redmond, WA

##### Key Skills:

C# • .NET Core • Azure • Microservices • React • TypeScript • SQL Server • Entity Framework • REST APIs • Test Automation

##### Summary:

Led feature development for Microsoft Teams collaboration platform, focusing on real-time communication APIs and integration points.

- Architected and implemented high-throughput notification service handling 50k+ messages per second.
- Led team of 6 engineers delivering quarterly platform feature releases.
- Reduced backend service latency by 65% through optimization and caching strategies.

- Contributed to architectural design of Teams API gateway.
- Implemented automated testing infrastructure increasing test coverage by 40%.
- Mentored junior developers on best practices for API design and testing.

#### **Internal:**

Spearheaded internal knowledge sharing and mentoring initiatives.

- Created comprehensive onboarding documentation reducing ramp-up time for new hires by 30%.
- Organized and delivered bi-weekly tech talks on advanced .NET topics.
- Contributed to engineering blog with articles on performance optimization.

#### **Project/Client: Teams API Gateway Redesign (~6 months)**

Led technical redesign of the Teams API gateway to improve performance and scalability.

- Designed new routing and caching architecture reducing average response time by 200ms.
- Implemented circuit breaker patterns to improve system resilience.
- Created comprehensive monitoring and alerting framework.
- Documented architecture patterns for use across other Microsoft services.

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## **Google**

### **Software Engineer**

**July 2016 - February 2018** / Mountain View, CA

#### **Key Skills:**

**Java • Golang • Kubernetes • GCP • Distributed Systems • Protocol Buffers • gRPC • Continuous Integration • System Design**

#### **Summary:**

Worked on Google Cloud Platform's container orchestration services, focusing on Kubernetes integration and developer tooling.

- Developed services for container health monitoring and automated scaling.
- Improved deployment pipeline reducing build times by 35%.
- Implemented data collection system for container performance metrics.
- Contributed to open-source Kubernetes ecosystem tools.
- Fixed critical bugs in container networking components.

#### **Additional Details:**

- Created developer guides for internal container deployment tools.
  - Participated in cross-team architecture reviews for infrastructure services.
  - Mentored new team members on Google's development practices.
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## Dropbox

### Junior Software Engineer

June 2014 - June 2016 / San Francisco, CA

#### Key Skills:

Python • Django • MySQL • Redis • JavaScript • React • AWS • Testing • Git • RESTful APIs

#### Summary:

Developed and maintained backend services for Dropbox's file synchronization platform.

- Implemented RESTful APIs for third-party application integrations.
- Designed and built caching layer reducing database load by 40%.
- Created admin dashboard for monitoring system health metrics.
- Participated in on-call rotation supporting production infrastructure.
- Contributed to migration from monolithic to microservice architecture.

#### Responsibilities:

- Built and maintained Python services handling file metadata operations.
- Collaborated with frontend team to develop user-facing features.
- Performed code reviews and provided technical guidance.
- Optimized SQL queries improving performance of core file operations.

## CERTIFICATIONS

### AWS Solutions Architect Professional

#### Amazon Web Services

[Issued Apr 2022](#) • [Expires Apr 2025](#)

### Certified Kubernetes Administrator (CKA)

#### Cloud Native Computing Foundation

*Issued Jan 2021 • Expires Jan 2024*

### Google Cloud Professional Cloud Architect

#### Google Cloud

#### GCP-PCA-2020 • Cloud Architect Certification

Comprehensive certification for designing and managing GCP solutions

*Issued Mar 2020 • Expires Mar 2023*

### Microsoft Certified: Azure Solutions Architect Expert

#### Certification ID: MS-AZ305

Validates expertise in designing cloud and hybrid solutions on Azure

## **Terraform Associate**

HashiCorp certified

Infrastructure as Code expertise using Terraform

[Issued Sep 2021](#) • [Expires Sep 2023](#)

## EDUCATION

**Stanford University:** Master of Science - Computer Science

**University of California, Berkeley:** Bachelor of Science - Computer Science

## CONTACT INFORMATION

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