

# Alexandra Catherine Martinez-Rodriguez PhD

San Francisco Bay Area, California

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## PROFESSIONAL SUMMARY

Highly accomplished Principal Software Architect with 12+ years of experience designing and implementing large-scale distributed systems. Deep expertise in microservices architecture, cloud infrastructure, and team leadership. Proven track record of leading cross-functional teams, driving technical innovation, and delivering enterprise solutions that serve millions of users worldwide.

## SKILLS

JavaScript • TypeScript • Next.js • Express • Python • Django • PostgreSQL • MongoDB • Redis • Docker • Kubernetes • AWS • Azure • GraphQL • REST API • Agile • Scrum • Team Leadership • Code Review • Mentoring

## EXPERIENCE

### Senior Full-Stack Developer

2021-03 - Present

*TechCorp Solutions*

San Francisco, CA

- Led development of microservices architecture serving 2M+ daily active users
- Reduced API response time by 40% through optimization and caching strategies
- Mentored team of 5 junior developers, improving code quality and team velocity
- Implemented CI/CD pipeline reducing deployment time from 2 hours to 15 minutes
- Architected real-time notification system using WebSockets and Redis

### Senior Software Engineering Manager

2019-03 - 2020-12

*Enterprise Solutions Inc*

San Francisco, CA

- Managed team of 15 engineers across three product areas, delivering critical features for enterprise customers
- Established engineering best practices including code review guidelines, testing standards, and deployment procedures
- Led API redesign initiative improving developer experience and reducing integration time by 70%
- Implemented comprehensive monitoring and alerting system achieving 99.95% uptime SLA
- Collaborated with product management to define technical roadmap and prioritize engineering initiatives

### Staff Software Engineer

2016-06 - 2019-02

*Innovative Tech Solutions*

Seattle, WA

- Designed and implemented real-time analytics platform processing 10M+ events per day
- Built scalable data pipeline using Apache Spark and Kafka for ETL operations
- Led performance optimization efforts reducing query response time by 80%
- Established testing framework achieving 90% code coverage across critical services