Sam Ayoub

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Leadership Summary

Innovative software architect and engineering leader with over 15 years of experience designing, scaling, and mentoring cross-functional teams across FinTech, AI, and SaaS industries. Expert in building high-performance API and cloud architectures on AWS, GCP, and Azure. Proven ability to lead large-scale digital transformations, optimize performance, and bridge business strategy with cutting-edge technology execution. Passionate about driving engineering excellence, fostering collaboration, and delivering scalable, secure, and user-centric systems.

Key Achievements

- Directed multiple enterprise API modernization initiatives, improving scalability by 40% and cutting deployment times by 25%.
- Led adoption of React-based CMS frameworks, streamlining multi-department content delivery and boosting engagement.
- Championed modular UI/UX architecture using Atomic Design principles, improving adaptability and maintainability across product lines.
- Mentored 10+ engineers into senior roles and established knowledge-sharing programs that improved delivery efficiency by 30%.
- Partnered with executive leadership to align cloud architecture with long-term product vision and regulatory strategy.

Professional Experience

Software Architect Consultant – First Citizens Bank, North Carolina (Apr 2023 – Present)
- Leading enterprise-wide architecture consulting for scalable API and cloud modernization initiatives across the FinTech platform.
- Advising on API governance, developer experience, and DevOps automation using GitLab CI/CD pipelines.
- Partnering with leadership to define cloud migration strategies leveraging AWS and Azure hybrid models.
- Driving continuous improvements in reliability, security, and developer productivity.

Senior Principal Software Architect – Silicon Valley Bank, San Diego (Jul 2020 – Apr 2023)
- Architected and implemented scalable API frameworks, achieving 30% reduction in operational downtime.
- Directed multi-functional teams through enterprise architecture modernization initiatives.
- Introduced API specification standardization, enhancing internal/external developer collaboration.
- Partnered with business stakeholders to align technology delivery with corporate goals during high-growth periods.

Senior Lead Engineer – Achieve Internet, San Diego (Mar 2019 – Mar 2020)
- Oversaw architecture and DevOps automation for API-driven enterprise applications across AWS, GCP, and Azure.
- Directed cloud security and compliance programs ensuring multi-tenant data protection.
- Streamlined CI/CD and deployment processes, improving release efficiency by 35%.

Senior Software Engineer – Aira, San Diego (May 2017 – Dec 2018)
- Automated the development lifecycle using Jenkins and CircleCI, reducing manual deployment by 60%.
- Collaborated with Marketing to apply SEO optimizations, resulting in a 20% increase in web traffic.
- Delivered scalable API integrations supporting accessibility innovations for visually impaired users.

Senior Lead Developer – Outsell Inc., Burlingame (Dec 2015 – Apr 2018)
- Led global development of the Outsell OSdata platform, serving over 10 million companies with real-time analytics.

- Designed and deployed SSO authentication systems enhancing data security and user experience.
- Coordinated remote engineering teams across multiple time zones to achieve on-time delivery.

Education

MBA, Management – Keller Graduate School of Management (2014)
Bachelor of Science, Computer Science – New York Institute of Technology (2012)

Core Competencies

Leadership & Strategy: Cross-functional Team Leadership, Mentorship, Strategic Planning, Stakeholder Alignment
Architecture & Engineering: API Architecture, Cloud Infrastructure (AWS, GCP, Azure), Microservices, DevOps Automation, CI/CD Pipelines
Innovation & Delivery: Agile Methodologies, Product Development, Performance Optimization, UI/UX Strategy, Security & Compliance
Tools: GitLab, Jenkins, Docker, Kubernetes, Terraform, React, Node.js, Python