

Vatsal Bakshi

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EXPERIENCE

Apple Inc.

Mar 2015 – Present · 11 yrs 1 mo

Senior Engineering Manager

Mar 2026 – Present

Architecture & Strategic Initiatives, Crypto Services

- Own the architectural direction of Apple's cryptographic infrastructure – PKI, encryption, code signing, and secrets management – setting the standards and multi-year roadmap that downstream engineering teams execute against

Senior Engineering Manager

Jul 2019 – Mar 2026

IT Governance & Planning, Office of the CIO

6 yrs 8 mos Infrastructure Data Platform

- Owned IS&T's GRC Engineering function – data platforms and access controls that security, compliance, and finance relied on for audit readiness, risk posture, and incident response
- Built Apple's compliance scoping engine – correlating OSQuery telemetry, artifact ownership, DAST/SAST, and SG/ACL network graphs across 1.7M servers and petabytes of infrastructure signal to dynamically bound PCI and SOX audit scope
- Shipped a PAM module as the change management gate on Apple's server fleet – blocking SSH access unless backed by an approved ServiceNow change ticket, with SELinux policies enforcing SOX access controls at login
- Built MCP servers and AI chatbots for each platform service – enabling semantic search and natural-language discovery across compliance, asset, and audit data
- Established Claude-powered code assist, PR review, and security checks as the team's default development workflow

Business Planning

- Scaled the budget planning platform to 200+ finance stakeholders – supporting Apple's annual capex/opex planning cycles and TCO tracking across the technology portfolio

Senior Software Engineer

Apr 2018 – Jul 2019

IT Governance & Planning, Office of the CIO

1 yr 3 mos

- Designed and shipped Apple's PAM-based change management gate – requiring an approved ServiceNow change ticket at SSH login, enforced with SELinux policies, to close a critical SOX access control gap across the server fleet

Security Software Engineer

Mar 2017 – Apr 2018

Video Engineering

1 yr 1 mo

- Built the secure data pipeline for FaceID model training – handling high-volume biometric data under strict privacy controls and end-to-end integrity requirements
- Provisioned training infrastructure with Terraform and Ansible, and built Jenkins CI/CD pipelines to validate model drops before promotion to production

Security Engineer

Mar 2015 – Mar 2017

Apple Online Store

2 yrs

- Built DUKPT-based cryptography libraries securing Point of Sale transactions across Apple Retail
- Designed and deployed HSM infrastructure for Apple's Payment Gateway, enabling hardware-backed end-to-end transaction security
- Ran goal-based penetration tests on Apple's Retail Engineering Red Team

eBay Inc.

Oct 2013 – Mar 2015 · 1 yr 5 mos

Information Security Engineer

Oct 2013 – Mar 2015

1 yr 5 mos

- Ran bug bounty remediation and web application penetration testing for eBay Marketplaces
- Extended Raptor, eBay's internal security framework, to systematically close XSS and other high-frequency web vulnerabilities

McAfee Inc.

Jan 2012 – Oct 2013 · 1 yr 9 mos

Security Consultant

Jan 2012 – Oct 2013

1 yr 9 mos

- Delivered penetration testing and security code reviews for major financial institutions, surfacing critical vulnerabilities across web and application layers

EDUCATION

Johns Hopkins University

2011 – 2012

M.S. Security Informatics

Birla Institute of Technology and Science

2007 – 2011

B.E. Computer Science

SKILLS

Cryptography

PKI / X.509 · HSM / PKCS#11 · Key Management · Code Signing

Security & Compliance

GRC Engineering · PCI DSS · SOX Compliance · Vulnerability Management · ServiceNow / CMDB · PAM · Zero Trust

Engineering Leadership

Engineering Management · Technical Roadmap · Org Design · Cross-functional Leadership

AI & Automation

Agentic Workflows · MCP Servers · LLM Integration

Languages

Go · Python

Infrastructure

Cloud Security (AWS / GCP / Azure) · Data Pipelines · Terraform / Ansible · Enterprise Architecture