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Summary

Senior Staff / Principal Software Engineer & Tech Lead with 15+ years of experience building identity, authentication, and distributed platforms at Cash App, Lyft, and Microsoft. Expert in OAuth2, OIDC, FIDO, Passkeys, PKCE, JWTs. Proven ability to lead cross-functional teams, drive architecture at scale, and deliver secure, standards-compliant systems for millions of users worldwide.

Experience

Cash App — Senior Staff Software Engineer / Tech Lead (Remote, 2020 – Present)

Over 5 years at Cash App, promoted through Identity, Financial Platform, and Core Experiences teams to lead platform-scale initiatives. Drove architectural transformations, implemented industry standards, and mentored engineers while delivering resilient systems serving 50M+ customers worldwide.

Core Experiences (2025 – Present)

- Architected and led migration of 30%+ of web traffic out of Franklin, reducing downtime by 25% and improving reliability for millions of daily active users.
- Launched secure web login for Afterpay Checkout, enabling global transactions and strengthening customer trust in payment flows.
- Implemented Scoped Sessions across Cash APIs, enhancing security and enabling fine-grained access control.
- Set engineering standards for session management, mentoring engineers and improving release quality by 20%.

Financial Platform (2023 – 2025)

- Drove architectural decomposition of Cash App's financial monolith into microservices, improving scalability, reliability, and developer velocity by 30%.
- Defined multi-year infrastructure modernization strategy, ensuring Cash App could scale reliably as it grew to tens of millions of customers.
- Championed reliability engineering practices, reducing incidents and improving availability SLAs across core payment services.

- Mentored engineers across teams, developing future tech leads and strengthening organizational capacity.

Identity & Authentication (2020 – 2023)

- Introduced industry-standard protocols (OAuth2, OIDC, FIDO, Passkeys) to modernize Cash App's identity infrastructure and improve customer security.
- Delivered IRS & NIST-compliant login/verification for Cash App Taxes, enabling secure tax filing for millions of customers.
- Authored and reviewed cross-team technical designs, ensuring consistent adoption of identity practices.
- Led quarterly planning and strategy for the Identity org, centralizing workstreams and eliminating duplication.
- Trained and mentored engineers, building the next generation of identity specialists at Cash App.

Lyft — Senior Software Engineer (Identity) (Remote, 2018 – 2020)

- Led identity integration and account linking following Lyft's acquisition of Motivate, migrating millions of bike-share users into Lyft's authentication platform with zero service disruption.
- Designed and deployed scalable login and account federation systems, enabling unified authentication across multiple mobility apps and supporting rapid product expansion.
- Partnered with product and security teams to define next-generation identity strategy, ensuring compliance and resilience for high-growth user traffic.
- Mentored engineers on identity protocols and platform development, helping scale Lyft's Identity team capabilities.

Microsoft — Senior Software Engineer (Redmond, 2012 – 2018)

Azure Active Directory (2015 – 2018)

- Owned core identity features including third-party app consent, access token max_age enforcement, and on-behalf-of flows, enabling secure single sign-on for hundreds of millions of enterprise and consumer accounts.
- Shaped OAuth2 adoption at Microsoft by supervising the implementation of PKCE code flows, later rolled out across the company's identity ecosystem.
- Collaborated with cross-org teams to converge consumer and enterprise identity stacks into a unified SSO model, reducing fragmentation and improving reliability.

Power BI / Mashup Engine (2012 – 2015)

- Developed next-generation data mashup engine, enabling integration of structured and unstructured data sources for real-time reporting, now core to Power BI's global adoption.
- Delivered auto-refresh pipelines and query execution improvements that enhanced performance and scalability for enterprise reporting.
- Partnered with PMs and architects to evolve Mashup Engine into a foundation for Microsoft's business analytics growth.

Key Projects

- Authorization Platform (Cash App): Built Cash App's first ReBAC-based authorization platform, powering Parental Controls and Teen Sponsorship at scale.
- Cash App Taxes: Designed secure authentication and verification system with passwords, non-VOIP verification, and OTP, ensuring NIST & IRS compliance.
- Account Linking (Lyft): Migrated and unified millions of users across bike-share platforms post-acquisition.
- Microsoft AAD V2.0: Delivered core OAuth2 enhancements for enterprise and consumer identity systems.
- Power BI Mashup Engine (Microsoft): Developed scalable data mashup and refresh capabilities, driving Power BI's global adoption.

Skills

Identity & Security: OAuth2.x, OIDC, FIDO, Passkeys, JWT, PKCE, ReBAC, SSO, MFA

Architecture: Distributed Systems, Microservices, Cloud (Azure, AWS, GCP), Scalability, Reliability

Leadership: Technical Strategy, System Design, Mentorship, Cross-Functional Collaboration