

Umair Saeed

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🌐 <https://umairsaeed.com>

📍 San Francisco Bay Area, CA

I am a Principal/Sr. Staff engineer. Over a career of 18 years, I have built and launched several software products used by millions. The depth & breadth of my technical ability allows me to choose from a range of technical solutions for a given domain, allowing me to strike the balance between business needs, customer requirements, and cost. My domain expertise includes Small Businesses, FinTech, Marketplaces (B2B, B2C), Mobile apps & ecosystems, Social networks.

WORK EXPERIENCE

LinkedIn

Staff Software Engineer (Profile) January 2021 to December 2022

- Led migration of all Profile to a new microservices architecture to move away from the monolith.
- Led the successful launch of a massive multi-year rewrite of Profile; Allowed new sections to be added to Profile in days instead of weeks.
- Standardized tracking of performance & other key metrics for all clients by kickstarting engineering working groups, refactoring code, and using new tools & processes.
- Launched and set the technical direction to rebuild the SDK for measuring feature performance for all of iOS at LinkedIn.
- Re-architected key parts of the Profile flow on iOS; Optimized memory usage and resolved memory leaks for key workflows.
- Championed and helped standardize the use of Server-Driven UI for other teams at LinkedIn.
- Coached and mentored other engineers.

Google

Software Engineer (Marketplaces) June 2016 to November 2020

- Led, designed, implemented & productionized backend services to connect Merchants with Consumers (B2C) for a first party booking management solution for small businesses; Led cross-functional initiatives involving engineering, product, legal, privacy.
- Designed and built mid-tier layers to connect Marketplaces services with Google Calendar & Maps.
- Led, designed & launched a new fully native home feed for Google My Business iOS – Redesigned the mobile APIs, overall lead across all platforms. Resulted in reducing the time to implement new cards on the home feed from several weeks to 2-3 days.
- Architected & built a framework to enable bidirectional inter-op between native iOS app & embedded web-views; Designed & built an iOS camera-centric media flow.
- Coached and mentored other engineers.

Intuit

Staff Software Engineer (QuickBooks iOS, QuickBooks Online) July 2012 to May 2016

- Founding engineer & technical lead for the QuickBooks mobile team. Prototyped and championed the initial proof of concept which led to green light for QuickBooks Mobile project. Helped build the team from 2 to 20 engineers.
- Led the building of the app from idea to v1 and beyond – Led engineering design & implementation; Provided domain expertise; Defined milestones for the entire team.
- Helped design the core backend APIs and data models power the mobile app.
- Designed and implemented significant features like Reports and Multi-currency, CRUD (UI & logic) for all accounting transactions (Invoices, Sales Receipts, Estimates, Expenses, Payments, Sales Taxes etc.), and entities (Customers, Vendors)
- Defined and built a framework of reusable UI components (pickers, lists, popovers) used across the app.
- Prototyped, designed, & built the first version of QuickBooks for Apple watch.
- Led the early adoption of Swift (Adoption framework, learning clubs, coaching, and teaching)

Sr. Software Engineer (QuickBooks Enterprise) January 2006 to Jul 2012

- Designed & implemented core features critical projects: Concurrency, multi-user, per site item and quantity (Advanced Inventory SKU); Exchange rates, exchange rates downloader, exchange rate list, home currency adjustment transaction (Multi-currency support)
- Defined and managed the DB Schema; Analyzed & optimized DB query performance.

Techlogix

Software Engineer

March 2003 to January 2004

- Inventory Tracking for GE's Aero-Energy Products Division. Designed & implemented Java Enterprise Web-App workflows to manage inventory, via multi-layered software architecture (J2EE, Oracle DB, App Server)

EDUCATION

University of Wisconsin-Madison

Master of Science (M.S.) Electrical Engineering (Computer Engineering)

Dec 2005

University of Engineering & Technology, Lahore, Pakistan

Bachelor of Science (B.S.) Electrical Engineering (Computer Engineering)

Dec 2002

SKILLS

- Programming Languages
 - Proficient: Java, Swift
 - Recent: Python, Rust
 - Used professionally: Objective-C, C++, C, SQL
 - Familiar: JavaScript, Kotlin, Scheme, Haskell
- Mobile development, iOS development, mobile UX, native vs non-native mobile solutions and their tradeoffs.
- Algorithms, data structures, functional programming, concurrent and asynchronous programming.
- API design, object-oriented analysis and design, design patterns, reactive patterns, domain modeling, system design, evaluating architectural characteristics for software architectures.
- Web services, microservices, service-oriented architecture, productionizing and monitoring web services, RPCs, REST services, GraphQL, Protocol buffers.
- Engineering best practices (estimation and project tracking), code review best practices, code style guides for team and organization, code structures.
- Tools such as Xcode, Visual Studio, IntelliJ, Eclipse, Perforce, Git, Mercurial, JIRA.

PATENTS

- US 8,621,437 B2: Weighted Performance Metrics for Financial Software
- US 8,484,646 B1: System and Method for Managing Process Flows Within a Computing Device Based on User Behavior

LEADERSHIP

- In all my teams, I have mentored and coached other engineers, to help them grow and navigate their careers.
- Grew the technical skills of my team by giving frequent talks and organizing book clubs, working groups, hackathons, and watching technical sessions (e.g., WWDC).
- Collaborated across all functions of an organization, such as product, design, legal, privacy, HR etc.
- Member of IEEE, IEEE Computer Society, & ACM