

Ibrahim Ismail

Beirut, Lebanon

+961 3 689 039

ibrahimismailh@gmail.com

<https://ibrahimismail.dev>

Senior Full-Stack Engineer with 5+ years of experience specializing in high-performance frontend architectures, browser extension development, and robust backend API ecosystems. Proven track record of leading engineering teams and owning the complete SDLC for enterprise-grade security and authentication software. Expert at identifying system bottlenecks, resulting in concrete wins like an 8x build optimization and a 10x scalability increase. Deeply adaptable across modern tech stacks with extensive experience integrating advanced AI-driven workflows to accelerate product velocity. Available immediately.

TECHNICAL SKILLS

Backend & API Engineering: Node.js, TypeScript, Express.js, Java, Python, Flask, PHP, GraphQL, REST APIs, Webhooks, gRPC with Protocol Buffers (Protobuf).

Frontend Architecture: React, Vue, Next.js, TypeScript, JavaScript, Micro-frontends, Browser Extensions (Manifest v2/v3), SASS/CSS, Tailwind, Responsive Mobile-First Design.

Database Systems: PostgreSQL, MySQL, MongoDB, Database Migrations & Schema Design.

DevOps & CI/CD Pipelines: GitHub Actions, CircleCI, Docker, ArgoCD, Kargo, Cloudflare Registrar.

Specialized Security & Workflows: Zero Trust Architecture, Biometric Authentication, P2P Encryption (Symmetric/Asymmetric, Key Rotation), AI-Assisted Engineering (Cursor, Claude Code, GitHub Copilot, MCP Servers), Feature Flags (LaunchDarkly, Split), System Monitoring (DataDog, Sentry).

PROFESSIONAL EXPERIENCE

JumpCloud, Colorado, US (Remote) — Software Engineer

FEB 2022 - May 2026 (4+ years)

JumpCloud provides an enterprise cloud directory platform securing access, identity, and device management across global workforces.

Backend Systems, APIs & Data

- Built and maintained backend services powering password vault synchronization across web extensions, desktop apps, and native clients—handling encrypted data flows end to end.
- Engineered secure peer-to-peer sync pipelines with asymmetric and symmetric encryption, key generation, and rotation—designing the data layer for a distributed credential management system.
- Overhauled the low-level synchronization mechanism between the web extension and desktop application, eliminating critical memory leaks and significantly improving throughput under load.
- Scaled vault data handling from a 5,000-item ceiling to 50,000+ entries through optimized persistence patterns, client-side caching, and efficient reads/writes across SQL and NoSQL storage backends.
- Led the JumpCloud Password Manager Browser Extension (PWMBE) team with full ownership of backend integration, architectural decisions, and cross-team delivery.

Platform Architecture & Admin Portal

- Architected TypeScript micro-frontend modules for the JumpCloud Admin Portal, integrating REST and GraphQL APIs for identity, device, and access management workflows.
- Built a dynamic permission-scope rendering system driven by backend role definitions—grouping scopes into categorized tables with logical dependencies so new permissions ship without frontend code changes.

- Participated in the technical hiring pipeline, interviewed engineering candidates, and established structured onboarding with continuous knowledge-transfer sessions.

Frontend, Extensions & Client Applications

- Led the Manifest v2 to v3 migration for the primary web extension, redesigning core workflows around background Service Workers in TypeScript.
- Developed the JumpCloud Go browser extension from scratch, enabling secure, cross-platform biometric authentication for seamless user logins.
- Delivered Safari browser support via a native Swift communication layer interfacing securely with desktop software.
- Replaced a legacy Gulp build with a modern Webpack configuration, cutting extension build times by 8x (from 4 minutes to 30 seconds).
- Implemented lazy loading and list virtualization to keep UI performance stable as vault sizes grew by an order of magnitude.

Engineering Workflows & DevOps

- Built and managed full CI/CD automation (migrating from CircleCI to GitHub Actions) to compile, test, and distribute production builds to major web stores.
- Embedded advanced AI tools (Cursor, Claude Code, Gemini, Copilot, and custom MCP server integrations) into daily development, accelerating implementation and test coverage.
- Managed production incident response, rollbacks, and root-cause analysis using LaunchDarkly for feature flagging and DataDog for centralized logging.

MYKI, Beirut, Lebanon — Software Engineer

SEP 2021 - FEB 2022 (6 months)

A decentralized password management company serving global businesses and MSPs (Acquired by JumpCloud).

- Led the development efforts for the flagship password manager browser extension, shipping key updates, strengthening cross-browser stability, and refining automated credential autofill logic.

Neo Mena Technologies, Beirut, Lebanon — Software Engineer

DEC 2020 - SEP 2021 (9 months)

A premier FinTech corporation specializing in wealth management and modern digital investment applications.

- Translated structural UX drafts into highly performant, pixel-perfect, and fully responsive frontend views using React and SASS.
- Independently managed a standalone mini-project from scratch to production deployment, introducing full localization, dark mode, mobile-first design rules, and complete automated unit testing patterns.

EDUCATION

Master of Science in Computer Engineering LIU, Beirut, Lebanon

SEP 2019 - JUNE 2021

GPA: 3.85

Bachelor of Science in Computer Engineering LIU, Beirut, Lebanon

SEP 2016 - JUNE 2019

GPA: 4.0