

Mohammed Ibrahim

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SUMMARY OF QUALIFICATIONS

- **Programming Languages:** Swift, Typescript / JavaScript, Python, HTML, CSS, MATLAB
- **Tools and Technologies:** Xcode, PostgreSQL, AWS (EC2, Lambda, S3), Cloudflare (Workers, C2), Google Cloud Platform (GCP), React, Express.js, Node.js, Pinecone

PROFESSIONAL EXPERIENCE

- **Boom** Toronto, Ontario
Founding Software Engineer *Nov 2022 - Present*
 - Developed a native macOS camera application that seamlessly integrates with major video conferencing platforms including Zoom, Google Meet, and Microsoft Teams
 - Implemented advanced video processing capabilities including custom filters, camera controls, person segmentation and zoom/pan functionality, with a focus on performance and optimal memory management.
 - Developed a custom theme engine with dynamic font rendering, supporting 50+ typefaces and real-time text overlays
 - Developed custom rendering pipeline for hardware-accelerated video processing and overlay compositing
- **Apple** Santa Clara Valley, CA
Software Engineering Intern - Machine Translation *May 2023 - August 2023*
 - Led experimental prototyping initiatives for next-generation iOS Translation features, focusing on novel user interaction patterns
 - Collaborated with design, product, data, and ML teams
- **Twitter** Toronto, Ontario
Software Engineering Intern - Tweets Composition *May 2022 - Aug 2022*
 - Spearheaded the development of mixed-media tweets, enabling users to combine multiple media types (GIFs, videos, photos) in a single post
 - Engineered a media gallery system with dynamic badges showing real-time metrics and video progress
 - Designed and prototyped an enhanced draft management system focusing on contextual metadata and cross-device synchronization
 - Utilized Swift and Objective-C to implement core tweet composition features
- **Apple** Santa Clara Valley, CA
Software Engineering Intern - Machine Translation *May 2021 - Aug 2021*
 - Built image translation and live video translation for the official Translate app on iOS 16.
 - Implemented computer vision techniques using Optical Flow to enable smooth text tracking in video translations
 - Created a comprehensive internal benchmarking tool for evaluating translation quality and performance metrics
 - Utilized Swift and Objective-C for core implementation and optimization
- **Shopify** Toronto, Ontario
Software Engineering Intern - Core Orders *Jan 2021 - April 2021*
 - Shipped features for orders and fulfillment screens within the Shopify mobile app, viewed nearly 90M times a month
 - Achieved 2.5x performance improvement in order loading through pagination and caching strategies
 - Led cross-functional collaboration efforts, coordinating with design, data, and Android teams to ensure consistent implementation
- **Shopify** Toronto, Ontario
Software Engineering Intern - Point of Sale *Sep 2020 - Dec 2020*
 - Developed native iOS solutions for point-of-sale operations, focusing on store management workflows
 - Built a comprehensive event tracking system for managerial approvals, providing transparent audit trails for discounts and overrides
 - Implemented a robust data architecture using GraphQL and Core Data for seamless online-offline synchronization

EDUCATION

- **Toronto Metropolitan University** Toronto, ON
Bachelor's of Engineering in Computer Engineering *Sept. 2019 - Apr. 2025*