

# Nickolas J Hilton

Seeking full-time employment as a software developer in the greater Boston area

nhilton777@gmail.com ♦ 55 Meacham Rd Unit A, Somerville MA, 02144 ♦ 603-247-9124

## Professional Experience

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### Facebook 2020 - Current

#### Messenger Desktop

Developed front end messaging and real time communication features in React Native  
Shaped the requirements of the bleeding edge React Native Desktop framework  
Created C++ based native modules for interfacing directly with user's operating systems  
Utilized Typescript and React to migrate DOM dependent features from Electron to React Native

#### Deployment UX

Created monitoring platform for Facebook's container and sharding environments  
Utilized React, Recoil, Hack, and GraphQL to deliver key customer features that expedite debugging  
Developed novel and interactive charts for efficiently visualizing and drilling down data at scale

### Google 2017 - 2020 Software Engineer III

#### Cloud Console Common Frontend Components

Developed and maintained a library of common Angular components used by 400+ frontend devs  
Drove Karma screenshot adoption and improvements until they matched hermetic test quality  
Karma improvements reduced flakiness and dropped test time from 20 minutes to 30 seconds  
Led to 200+ tests created across 30+ partner teams  
Explored and improved performance of critical and historically slow components  
Created generic virtualization component for rendering 50k+ rows of variably sized data  
Drove the cross-org publication of components to the wider company in a multi-quarter plan  
Plan included beta test groups to mitigate risk and tech debt, prioritizing team velocity  
Hosted 5 interns and mentored 3 new hires.  
20% Project to make these components available to Google projects outside of Cloud Frontend

#### Cloud VM Virtualization

Designed and implemented tool in Go to retrieve critical diagnostic data from malfunctioning VMs  
Improved internal Python integration testing framework, reducing flakiness  
Orchestrated internal merge of multi-thousand file UEFI repository that was several years stale  
Documented and streamlined process for future UEFI syncs, including staging environments and tests

### Microsoft Summer - 2015 Summer - 2016

Developed prototype start menu widget for managing contacts in C++/CX  
Used C++/CX to make a Universal Windows App for the Windows Shell team  
App used to validate and create JSON consumed by a feature of Windows 10  
Tested cutting edge tools during Windows 10 and Visual Studios 2015 development

### Intuit Spring - 2015

Created a co-browsing and video chat solution for use with customer insights  
Developed co-browsing solution using Javascript, Websockets, and WebRTC  
Presented co-browsing solution to executives alongside its current market competitors  
Developed a 'man in the middle' application meant to push the boundaries of browser security  
Application would create a sandboxed iframe for running external HTML and Javascript  
Developed a state machine graph creator using AngularJS and NodeJS  
Application allows outside companies to create applications to run on TurboTax engine

### MITRE Spring - 2014 Summer - 2014

Acted as team leader on several projects, responsible for planning, pacing, and packaging  
Occupied a leadership role among a group of a dozen interns  
Created a secure content delivery system to scale to the corporate level  
Developed iOS applications to corporate security standards utilizing Good Dynamics  
Created applications for emerging technologies, such as the Pebble Watch  
Introduced interactive capabilities for traditionally simple sensors (iBeacons, QR Codes, Geofencing)

## Education

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Rochester Institute of Technology

BS in Computer Science, December 2016