

Nickolas J Hilton

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

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Professional Experience

Facebook

2020 - 2022

Software Engineer E4

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
Optimized web performance to improve page load times and clean up long standing tech debt

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

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

SWE Intern

Developed prototype start menu widget for managing contacts in C++/CX
Leveraged virtualization to optimize performance for potentially large datasets
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

SWE Intern

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 allowed outside companies to create applications to run on TurboTax engine

Education

Rochester Institute of Technology

BS in Computer Science, December 2016