Nickolas J Hilton

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

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Professional Experience

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

Google
2017 - 2020
Software Engineer III

Cloud Console Common Frontend Components
Developed and maintained 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

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)

Personal Projects (github.com/geekster777)

8x8x8 LED Cube

A cube of over 500 LED's
Displays three dimensional animations
Powered by an Arduino.

Operating System

Educational operating system and boot loader
Added round-robin scheduler and timer based interrupts
Implemented basic memory allocation

Education

Rochester Institute of Technology

BS in Computer Science, December 2016