

Nickolas J Hilton

Seeking full-time employment as a software developer beginning Winter 2020

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Professional Experience

Google 2017 - Current 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 Hosted 2 interns and mentored 2 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 Focus was on an intuitive user experience and wide functionality
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)
MITRE Summer - 2013	Developed systems in C# utilizing network capabilities to control multiple networked devices Prototyped solution for securing digital artifacts in an enterprise environment Assessed user based technology to obscure the complexity of a collaborative tool being prototyped Organized group of potential end users for usability testing Assessed and developed the prototype from the perspective of a millennial generation employee Presented the results to the highest levels of the company

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