Nickolas J Hilton

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

nhilton777@gmail.com ♦ 3641 Evanston Ave N, Apt. 104, Seattle WA 98103 ♦ 603-247-9124

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 minuntes to 30 seconds
Led to 200+ tests created across and 30+ partner teams
Explored and improved performance of critical and historically slow components
Created generic virtualization component for rendering 50k+ rows of variable 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 solution to executives, as well as 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