

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
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