

## About Me

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<b>Programming Languages</b>	C • C++ • Go • Javascript(ES6) • PHP 7 • Python 3 • Ruby • SQL
<b>Frameworks/Libraries/Tools</b>	AWS • Azure • Cassandra • Django • Docker • Elasticsearch • Flask • GCP • GraphQL • Jenkins • Kafka • Kubernetes • Memcached • MongoDB • MySQL • Node.js • PostgreSQL • Rails • React • Redis • Travis
<b>Education</b>	Old Dominion University: 2020 - B.S., Psychology George Mason University: 2017 - B.S., Computer Science

## Professional Experience

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### State Farm

Lead Software Engineer: Sundial Labs Independence Team

**Palo Alto, CA**

Jun 2020 - Present

- Serving as Alexa engineering lead both within the Independence Team and cross functionally across 4 other teams
- Integrating a product-wide GraphQL aggregation layer built in Go to optimise client side runtimes
- Scaling up core APIs by converting them over from Node.js to Go in order to reduce cost within AWS
- Developing video capture functionality to facilitate sharing video content between echo and mobile devices
- Integrating Cassandra via AWS Keyspaces to improve data accessibility in unison with existing PostgreSQL instance
- Developing Lambda step functions to improve cost optimisations through archiving stale data from S3 into Glacier

### Volkswagen Credit, Inc.

Lead Software Engineer (Covid-19 Layoff): Innovation Labs  
Software Engineer: Innovation Labs

**Herndon, VA**

Sep 2019 - Apr 2020

Feb 2019 - Sep 2019

- Led technology discussions within the lab and with communications with external partners
- Contributed to the creation of an Event Sourcing architecture built with Kafka to establish a state rebuild mechanism
- Worked to architect and develop a GraphQL aggregation layer for use in VW's e-commerce reservation platform
- Led Summer 2019 engineering interns through applied machine learning projects in CV and algorithmic design
- Led development on VW Alexa products to drive customer loyalty and engagement
- Led development on a large scale data analytics and simulation platform

### Discovery Communications, Inc.

Senior Software Engineer (Contract): Media Infrastructure

**Silver Springs, MD**

Nov 2018 - Jan 2019

- Developed and implemented a data pipeline for validating Discovery's video metadata using Python3
- Worked with AWS Elemental Live APIs to create a client-facing user interface for media delivery with Python3
- Implemented authentication functionality for internal media delivery applications using Angular 2 and Node.js

### Sequoia Holdings, Inc.

Lead Software Engineer (Laid Off): Blockchain

**Reston, VA**

May 2018 - Jul 2018

- Translated company codebase to Python3 via a series of blockchain MVPs
- Wrote and productized a decentralized blockchain network for enterprise using Python3
- Delivered company-wide presentation sessions to guide product direction for blockchain

### Microsoft

Lead Software Engineer (Contract): Microsoft Azure Blockchain & ML

**Washington, D.C.**

Mar 2018 - Apr 2018

- Led architectural design and development for retail blockchain MVP built with React/Node.js
- Led development of pdf classification model within Azure ML team for creating a query portal

**Telos Corporation**

Software Engineer: Innovation Lab

Intern Software Engineer: Innovation Lab

**Ashburn, VA**

Aug 2017 - Mar 2018

May 2017 - Aug 2017

- Utilized Github's Electron framework to build out a cross-platform dashboard UI for a desktop blockchain application
- Worked with the backend team to configure Hyperledger Composer and build REST APIs for productization
- Spearheaded research efforts into blockchain technology to guide project decisioning