

About Me

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|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Programming Languages | C++ • Go • Javascript(ES6) • PHP 7 • Python 3 • Ruby • SQL |
| Frameworks/Libraries/Tools | Aerospike • Angular • AWS • Azure • Cassandra • Docker • Flask • GCP • GraphQL • Hyperledger • Jenkins • Kafka • Kubernetes • MongoDB • Node.js • OpenCV • Pytorch • Rails • React • Redis • Tensorflow • Travis |
| Education | George Mason University: Fall 2017 - B.S., Computer Science |

Professional Experience

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| Deloitte Senior Software Engineer: Supply Chain | Herndon, VA Apr 2020 - Present |
| <ul style="list-style-type: none">- Designing and scoping out new feature sets within an upcoming Supply Chain application- Developing Python 3 APIs using the FastAPI framework and hosting them within AWS EC2 Instances- Contributing to React front-end component development- Creating and maintaining system documentation to assist with easy onboarding- Mentoring junior engineers through career development and engineering best practices | |
| Volkswagen Credit, Inc. Lead Full Stack Software Engineer: Innovation Labs Full Stack Software Engineer: Innovation Labs | Herndon, VA Sep 2019 - Apr 2020 Feb 2019 - Sep 2019 |
| <ul style="list-style-type: none">- Designing and scoping out all engineering prototypes for future development within the Lab- Spearheading software architectural and database designs for all prototypes within the Lab- Contributing to existing React/Node.js web application projects- Developing algorithmic models using PyTorch- Leading Summer 2019 engineering interns through applied machine learning projects in CV and algorithmic design | |
| Discovery Communications, Inc. Senior Software Engineer (Contract): Media Infrastructure | Silver Springs, MD Nov 2018 - Jan 2019 |
| <ul style="list-style-type: none">- 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- Completed a Google Cloud Developer and an AWS certification course- Implemented authentication functionality for internal media delivery applications using Angular 2 and Node.js | |
| Sequoia Holdings, Inc. Lead Full Stack Software Engineer (Laid Off): Blockchain | Reston, VA May 2018 - Jul 2018 |
| <ul style="list-style-type: none">- Translated company codebase to Python3 via a series of blockchain MVPs- Wrote and productized a decentralized blockchain network for enterprise using Python3- Developed a REST API with Flask for users to communicate with the network- Delivered company-wide presentation sessions to guide product direction for blockchain | |
| Microsoft Lead Software Engineer (Contract): Blockchain & AI/ML | Washington, D.C. Mar 2018 - Apr 2018 |
| <ul style="list-style-type: none">- 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

Full Stack 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

Publications

- **Development and Validation of a Deep Learning Algorithm for Early Detection of Alzheimer's Disease in Genetic Data.** In-progress: 2019
- **A Backpropagation Algorithm for Performance Improvements Within Distributed Neural Networks.** In-progress: 2019
- **An Exploration of Classification Models for Providing Medical Pre-Diagnoses from Structural MRI Scans.** In-progress: 2020

Awards

DevFest Hackathon First Place - Chord

- Won first place during Google Firebase Hackathon with a real-time audio commenting tool for musicians utilising Google Firebase and Javascript

Five Star - Amazon Alexa Skills Store

- Received five star ratings on skills developed for Amazon Alexa using the Amazon Alexa SDK in python and node.js