# Isaac Sheikh

Research Software Engineer

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About Me

**Programming Languages** Dart • Javascript(ES6) • Python 3 • SQL • Swift

Frameworks/Libraries/Tools Anvil • AWS • Azure • Django • Docker • Flask • Flutter • GCP • MongoDB • Numpy •

OpenCV • Pytorch • React • SciKit-Learn • Tensorflow

**Education** George Mason University: Fall 2017 - B.S., Computer Science

## Professional Experience\_\_\_\_

#### **Volkswagen Group of America**

Herndon, VA

Lead Research Software Engineer - VCI Innovation Labs

Feb 2019 - Present

- Designing and scoping out prototypes for future development within the Innovation Labs
- Leading research efforts into future innovative technologies, such as deep learning and quantum computing
- Managing engineering component of Innovation Labs and mentoring junior engineers through projects
- Leading Summer 2019 interns through innovative machine learning projects to build out computer vision models
- Designing and leading software engineering interviews in order to further build out innovation engineering team
- Developing cross-platform distributed ledger applications utilising the Flutter ecosystem and Python
- Delivering lunch-and-learn sessions to educate and train employees to use innovative technologies

### **Discovery Communications, Inc.**

**Silver Springs, MD** 

Software Engineer

(Contract Position) Nov 2018 - Jan 2019

- Designed and developed a media data pipeline for validating video metadata using Python
- Implemented proprietary authentication functionality for internal media delivery applications using Angular 2
- Worked with AWS Elemental Live APIs to create a client-facing user interface for media delivery with Python
- Completed Google Cloud Developer and AWS certification course

## Sequoia Holdings, Inc.

Reston, VA

Back-end Software Engineer

(Laid Off: Budget Cuts) May 2018 - Jul 2018

- Provided business leaders with subject matter expertise on blockchain technology
- Developed a decentralized blockchain network for enterprise using Python/Flask
- Delivered company-wide learning sessions to train employees on distributed ledger and blockchain technologies

Microsoft Washington, D.C.

Blockchain & AI Lead

(Contract Position) Mar 2018 - Apr 2018

- Developed a cross-platform (mobile and web) blockchain platform with React and React Native
- Managed engineering team and brought subject matter expertise to guide business decisions
- Utilised Azure Machine Learning to create a query portal for categorising legal documents with reinforcement learning

Telos Corporation Ashburn, VA

Research Software Engineer - Innovation Team

May 2017 - Mar 2018

- 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

**Old Dominion University**IT Tech Lead
Oct 2015 - May 2016

- Guided junior members through data-sensitive projects and assisted with training/management

- Managed user database using SQL and utilised data to ensure productive downtime behind the desk

<b>Publications</b>	

- 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

Freelance Experience\_\_\_\_\_\_

Soko Washington, DC

Lead Mobile Engineer Jul 2018 - Dec 2018

- Utilising Flutter and Dart to design and develop an application that connects consumers to locally owned businesses
- Deploying mobile applications to App Store and Google Play

**Public Bloc**Chief Technology Officer

Washington, DC
Oct 2017 - Feb 2018

- Hired engineering team and led coding sprints
- Developed and deployed company website
- Identified and tracked success/tracking metrics to enable growth of the start-up / platform

**DrillBook**Software Engineer

Apr 2017 - Feb 2018

- Ported over Java Swing Front-End UI to Github's Electron in order to increase user retention
- Developed product website using HTML/CSS/jQuery to increase monetisation for company

Ashtech Ashburn, VA

Software Engineer Apr 2015 - Feb 2017

- Developed microservices using Go for controlling hardware inputs
- Developed Arduino programs to control micro-computer

**Techtagon**Technical Writer / Editor

Ashburn, VA
Jul 2014 - Oct 2015

- Oversaw development and growth of small-scale, technology-oriented website
- Edited and cultivated content for writers on the team

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