Isaac Sheikh
Research Software Engineer

571.315.1881
sheikhisaac@gmail.com
isaacsheikh.com

About Me_____

Programming Languages	C++ • Go • Javascript(ES6) • Python 3 • SQL
Frameworks/Libraries/Tools	Angular • AWS • Azure • Docker • Flask • GCP • GraphQL • Kafka Kubernetes • MongoDB • OpenCV • Pytorch • React • 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 and improve algorithmic design
- Designing and leading software engineering interviews in order to further build out innovation engineering team
- Architecting and developing a future mobility platform utilising blockchain and ML in React/Django/GraphQL
- 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 GCP 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   **Norfolk, VA**
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

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

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   **Washington, DC**
Chief Technology Officer   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   **Ashburn, VA**
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   **Ashburn, VA**
Technical Writer / Editor   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