Rachel Sheikh
Software Engineer

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About Me_____

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_____

Volkswagen Credit, Inc.   **Herndon, VA**
Lead Software Engineer - Innovation Labs   Feb 2019 - Present

- 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 innovative machine learning projects to build out computer vision models and improve algorithmic design

Discovery Communications, Inc. (Contract Position)   **Silver Springs, MD**
Senior Software Engineer   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
- Completed a Google Cloud Developer and an AWS certification course
- Implemented proprietary authentication functionality for internal media delivery applications using Angular 2 and Node.js

Soko (Contract Position)   **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

Sequoia Holdings, Inc. (Team Laid Off - Budget Cuts)   **Reston, VA**
Lead Blockchain Developer   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
- 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 (Contract Position)   **Washington, D.C.**
Lead Software Engineer - Blockchain & AI   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 (Internship / Part-Time Position)   **Ashburn, VA**
Full-Stack 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

DrillBook   **Ashburn, VA**
Software Engineer   Apr 2017 - Feb 2018

- Ported over Java Swing Front-End UI to Github's Electron Framework in order to improve user experience
- Contributed to development of field rendering components using Java
- 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

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