

# Travis Smith

## Introduction

Highly motivated technology professional interested in Software Engineering and Data Science.

## Employment

**SAIC/NASA** - Hampton, VA

**Associate Software Engineer**, December 2018 - November 2019

### **ServiceNow**

- Led meetings with customers to gather requirements for ServiceNow applications, created user stories, created design review documentation for review by internal team, planned agile sprints for projects and estimated development time, led development team and created testing procedures for customers, deployed applications to production environment, managed all incidents for related projects.
- Reported progress on projects to management and customers on a weekly basis.
- Participated in all parts of the software development lifecycle; from gathering requirements to operations & maintenance.

**SAIC/NASA** - Hampton, VA

**Associate Data Scientist**, October 2016 - December 2018

### **Python Projects**

- Developed a Convolutional Neural Network (CNN) for feature extraction on CT scans of 3-D printed objects, using the Keras and Tensorflow libraries.
- Converted Matlab Scripts to Python scripts for ease of use and portability.
- Performed Exploratory Data Analysis on atmospheric data; this required extracting images stored in NetCDF4 format and creating a Jupyter notebook for visualizations.

### **IBM Software and Tools**

- Used IBM Content Analytics to ingest, analyze, and demo correlation and stats found in various text documents.
- Assisted with installation and setup of IBM Data Science Experience (DSX) on Amazon Web Services (AWS) and attended hands-on user training for DSX.

### **I.T. Security and Splunk**

- Utilized Splunk to develop a methodology that could analyze user behavior and threats based on network traffic.

### **Web Server Development and Amazon Web Services**

- Assisted in developing a PHP web application to host a C++ program that could only be accessed by authenticated users.
- Migrated large quantities of financial data to the AWS cloud for better analysis due to hardware limitations on-site.

## Accomplishments

- Received Reward of Superior Accomplishment from NASA for contributions to the Center Automation Team.
- Completed NASA's T&I Labs Challenge: Created a prototype for a methodology of monitoring network traffic using Splunk.
- Developed understanding of computer network architecture by analyzing Splunk network logs and creating reports and dashboards.
- Applied advanced data science techniques to network data using a convolutional neural network. This allowed the data to be treated as images and could then be used as input to image processing methods.

## **Education & Certification**

### **Old Dominion University** - Norfolk, VA

- Master of Science in Computer Science - In Progress, December 2021

### **Christopher Newport University** - Newport News, VA

- Bachelor of Science in Computer Science - August 2016

### **Courses**

- Algorithms, Software Engineering, Data and File Structures, Programming Language Concepts, Computer Organization, Android Application Programming, Artificial Intelligence, Cybersecurity.

### **Trainings**

- Splunk University 3-day Power User Boot Camp, IBM DSX 2-day training course, Matlab Machine Learning and Signal Processing course, Jupyter Notebook and Scikit-Learn Workshop, Machine Learning with Andrew Ng by Coursera, 2-day SAFe Agile course.

## **Skills**

### **Programming Languages**

- Python, Java, Javascript, C#, C++, HTML, CSS, SPL.

### **Software**

- Jupyter Notebook, Splunk, IBM Content Analytics and DSX, AWS, Matlab, Tensorflow, Scikit-Learn, Pandas, Numpy, Keras, Windows OS, Linux OS, Microsoft Office, ServiceNow.