Advait Kulkarni

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Objective

# To seek a summer internship in Data Science and/or Software Engineering area where I can apply my technical expertise, skills, and learn new technologies in Software development and/or Data Science

Summary

# A highly skilled software developer with proficiency in Java, Python, C, C++, and R.

# Demonstrated track record of successful internships in complex technical projects at respected institutions such as Aerospace Corporation and NASA

# Strong problem-solving skills and technical knowledge in statistical data analysis

Education

**University of Virginia, Charlottesville, VA**

***College of Arts and Science***

*Major(s)- Computer Science Expected Graduation: May 20*

*Minor(s)- Statistics*

*Relevant Coursework: Machine Learning, Programming and Data Representation, Network Security, Database Systems, Statistical Analysis, Bio-statistics; Algorithms, E-commerce, Computer Architecture; Computer Visions*

***McIntire School of Commerce***

*Concentration – Finance Expected Graduation: May 21*

*Track – Quantitative Finance & Business Analytics*

***Current GPA: 3.5 (Dean’s list)***

Technical Competencies

***Programming Languages:*** Java, Python, C++, SQL, PHP, JavaScript, PHPOffice, Angular JS, Android Studio Development, Swift/Objective-C

***Machine Learning:*** R, TensorFlow, Scikit Learn

***SDLC:*** Waterfall, Agile

***Database:*** MS Access, MYSQL, PostreqSQL, SqLite3

***Web Development:*** Django, HTML, HTML5, AJAX, JavaScript, PHP

***Operating Systems:*** MS Windows, Linux, Unix, Android Studio

***Software:*** Google AdWords and Trends, Matplotlib, MS Office Suite, CAD, Docker, Amazon MTurk

Experience

## **McIntire Research Assistant (Sept 2018 – Current)**

* + Working with McIntire Finance professor in the field of Computational Finance.
    - Exploring to see if an increase in the search for a particular stock keyword will yield in a response in the stock market, particularly by hedge funds, using Google AdWords, Google Trends, and Amazon MTurk Task.
    - Designed and Developed a html page using HTML5, JavaScript, and AJAX that will be served on an MTurk session and will represent synthetic injections in the trend data by searching for a stock a particular number of times
    - Developing Amazon MTurk Task to check if synthetic injections produced by the user loading the survey on MTurk yield any response from hedge funds in the stock market for actual study in the next phase

## **The Aerospace Corporation at Chantilly, VA (May 21, 2018 – August 10, 2018)**

* + Worked with Aerospace Engineering Specialist in the field of database design and data representation
    - Developed a modern a web application framework on the Air Force’s Satellite Control Network (AFSCN) Scheduler that was used to visualize and track Remote Tracking Stations (RTS) and Space Vehicles (SV). Built using Cesium.js and a backend SqLite3 database
    - Developed the Air Force’s Satellite Operations Centre (SOC) Emulator that was built upon the AFSCN scheduler and allowed users to construct and transmit various SV or RTS commands/directives to the Operational Control Node (OCN) service.
    - Collaborated with other interns with Deep learning tools such as TensorFlow to build and test a training model to detect airplanes in frames captured from cameras placed around Dulles Airport
* **Aspiring Scientist Summer Internship Program at George Mason University (Aug 8, 2016 - Sept 5, 2016)**
  + Collaborated with a computer science professor at George Mason University on developing an editing platform for coding similar to Google Docs editing

## **NASA Summer Internship at Goddard Space Centre, MD (June 27, 2016 - Aug 5, 2016)**

* + Mentored by NASA System and Safety Hazard Engineer in Safety Department
    - Developed a software tool for logging flight development data and allowing Safety Mission Assurance Engineers to create, edit and view hazard reports from anywhere in the world.
    - Used various technologies such as Java, PHP, Access, etc. to build the software tool
    - Assisted Software Engineers to build security and scalability using Amazon Web Services (AWS) cloud technology
* **CoderKids: (5 hrs./week, Sept 2016- December 2016)**
  + Worked as a Studio Tutor for Java, Web Development, Minecraft, and Robotics,
  + Helped to develop new curriculums such as Python and Robotics

Technical Projects

## **Machine Learning Project**

* + Currently working on ML project to predict the number of high school graduates out of eligible high-school aged teens in Virginia. Exploring to see if various features such as median income, number of bachelor’s degrees, etc. indicate a lower high school graduation rate. Using Scikit Learn’s API to build and train model to make predictions.
* **E-Commerce Project**
  + Built a web application for HoosCleanin, a student-based cleaning service that allows students looking to make some money on the side. Also, cost for homeowner is cheaper than a traditional cleaning companies’ price since the price is predetermined between the student cleaner and the homeowner. Built using open source cloud platform C9, PHP, JavaScript, and HTML5.

## **Computer Vision project**

* + Created various 3D geometrical shapes such as Cube, Octahedron, and Tetrahedron using C++ and open source graphic libraries