Nikhil Kaul

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Objective

Obtain a full-time position starting Summer 2020 in computer/data science in which I can contribute my analytical, teamwork, and technical skills to improve the company's efficiency.

Education

B.S. Computer Science | AUG 2016 - MAY 2020
North Carolina State University, Raleigh, North Carolina
Minor : Statistics   **GPA** : 3.841/4.00

Study Abroad | JUN 2017 – AUG 2017
Oxford University, Oxford, U.K.
Program: University Honors Program **GPA** : 4.00/4.00

Experience

Clinical Operations and Biometrics Intern | MAY 2019 - AUG 2019
Roche, Pleasanton, California

➢ Analyzed and Visualized data for Roche Diagnostics. Created **Tableau** reports to improve efficiency for different lifecycles such as Virology and Blood Screening.
➢ Used **Python, R,** and **SAS** to clean large datasets of clinical trial data. Imported clean datasets **Tableau** server to create interactive maps and dashboards accessible to all of clinical operations
➢ Compared usability and efficiency of **RShiny** with **RMarkdown** and **Tableau**, and establishing framework for future Tableau projects

Undergraduate Researcher | DEC 2018 - PRESENT
Mixed Reality Lab (MXR), Raleigh, North Carolina

➢ Worked with virtual reality products such as Oculus Rift and Oculus Go to create a new realm of VR experiences for the user. Worked alongside startup, Logic Grip.
➢ Implemented the use of body haptics in virtual reality experiences to enhance user experience. Used **Arduino** boards and vibration motors, as well as **C#** scripting in **Unity** to showcase the use of haptics with the Oculus Go.
➢ Presented research at the North Carolina State University Spring Undergraduate Research Symposium and at the East Coast Games Conference.
➢ Writing **SDK** for the entire lab for new VR functionality.

Software Engineering Intern | SEP 2019 – NOV 2019
Bridgera LLC., Raleigh, North Carolina

➢ Technologies used: **Apache Hive, Apache Presto, Flask, SQLAlchemy, ReactJS, Apache Hadoop**
➢ Working on an implementation of data processing pipeline to handle data from disparate sources, using Apache open-source products for this implementation.
➢ System handles populating of data from different sources in the data lake, using Presto as the main SQL query engine.
➢ Working as part of a global team, including weekly meetings with software development team in India.

Skills

Languages: Java, Python, C, C#, C++, SAS, R, HTML, CSS

Software Tools: Tableau, ArcGIS, ArcMap, Apache Superset

Databases: SQL, MySQL, MongoDB, Apache Presto

Frameworks/Libraries: Spring, Hibernate, AngularJS, Flask

Software Engineering: Git, Agile Software Development, Kanban boards, Object-Oriented Programming, Machine Learning

Projects

Spotify Machine Learning Project – Jan 2019 - May 2019
➢ Used Spotify Web API to gather numerical data on tracks.
➢ Cleaned data from the server using **Python**, then used **Random Forest and Genetic Clustering Machine Learning Algorithms**

iTrust2 Project – Jan 2019 - May 2019
➢ Developed electronic healthcare records system to comply with HIPAA standards
➢ Used **Spring, Hibernate, and AngularJS** Frameworks with Java to create application, using **Agile** development methods

Project Rendezvous – April 2019
➢ Used Snapchat Creative Kit API to create custom stickers for events
➢ Won 'Best Use of Snapchat API' at NC State's MLH Sanctioned Hackathon.

Related Coursework

Computer Science: Data Structures and Algorithms, Assembly, Operating Systems, Network Security, Machine Learning and Automated Data Analysis, Software Engineering

Statistics: Introduction to Statistics I & II, Programming in SAS, Data Science, Statistical Quality Control, Linear Regression Analysis