

# ARSHIYA ANSARI

DATA-DRIVEN · CODE-BASED

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## EDUCATION

### University of Virginia

BACHELOR'S IN COMPUTER SCIENCE, BACHELOR'S IN STATISTICS, MASTER'S IN DATA SCIENCE

Cumulative GPA: 3.71 | CS GPA: 3.82 | Statistics GPA: 3.83

Charlottesville, VA

Aug 2016 - May 2021

### Stone Bridge High School / Academy of Science

HONORS: NATIONAL HONOR SOCIETY, NATIONAL MERIT SCHOLAR

Cumulative Weighted GPA: 4.21

Ashburn, VA

Sept 2012 - Jun 2016

## EXPERIENCE

### Apple

AI/ML INTERN: AUTONOMOUS SYSTEMS

Cupertino, CA

Jun 2020 - NOW

- Introduced new functionalities to improve performance to existing ETL processes and SQL queries for ground truth data set generation
- Migrated ground truth data set generation from previous data schema to a light-weight alternative
- Developed infrastructure for scalable and maintainable data set generation using Presto SQL and Apache Spark
- Added new features to the ground truth data sets for more robust and efficient machine learning model training

### Capital One

SOFTWARE ENGINEERING INTERN

McLean, VA

Jun 2019 - Aug 2019

- Implemented a live time-series forecasting algorithm using deep neural networks for Capital One's internal data ETL engine
- Developed an anomaly detection program for the performance metrics of the internal ETL engine via an automated Python script
- Established an anomaly alert functionality to indicate real-time performance issues to the ETL engine software development team

### Hack Cville Data Science Agency

LEAD STUDENT DATA SCIENTIST

Charlottesville, VA

Aug 2018 - May 2019

- Worked with a team of five UVA students to identify patterns and insights in datasets for local businesses in the Charlottesville area
- Consolidated business data into organized and structured databases and effectively transform the data for further use with SQL
- Developed and integrated accurate data models to aid in business growth with the use of Pandas and R

### CGI Federal

TECHNICAL CONSULTANT INTERN

Fairfax, VA

Jun 2018 - Aug 2018

- Corresponded with clients at the Center for Medicare and Medicaid Services for data analysis requests on healthcare insurance information
- Identified and reconciled 20 different bugs in the database by querying and analyzing data with Oracle SQL Developer
- Developed 5 new report templates in Cognos using Oracle SQL Developer to aid in easier delivery of data to clients
- Analyzed and corrected bugs for data flow and extracts using Informatica

## PROJECTS

### Mental Health ChatBot Application

1ST PLACE IN CHATBOT CATEGORY AND 1ST PLACE OVERALL AT UVA DIVERSITY HACKATHON

Charlottesville, VA

Apr 2018

- Developed a JavaScript-based ChatBot application to check-up and store information about mental and physical statistics about UVA medical students. Engaged as a task-reminder, resource tool, and personal journal.

### Independent Research: Attachment of Quantum Dots to Cancer Cells

1ST PLACE PHYSICS REGIONAL SCIENCE FAIR | LEIDOS HONORABLE MENTION | YALE ENGINEERING HONOR

Sterling, VA

Sept 2014 - Jun 2016

- Programmed and secured the attachment of the manufactured quantum dots to solely pancreatic cancer cells and not healthy pancreatic cells by the overexpression of the PAR1 antibody receptor on cancer cells.

## COURSES

**Computer Science** Discrete Math, Software Development, Machine Learning, Databases, Cloud Computing, AI, Algorithms

**Mathematics** Data Analysis, Regression Analysis, Probability, Linear Algebra, Multivariate Calculus

## SKILLS

**Programming** Python, SQL, Apache Spark, Java, AWS, R, SAS, C++, Assembly

**Analytic Tools** Cognos, Mathematica, MatLab, Microsoft Excel, LaTeX

**Languages** English, Spanish, Hindi, Urdu, Telugu

**General** Photography, public speaking, mentoring, writing, film production, dancing

**Activities** Women in Computing Sciences, Society of Women Engineers, Hack Cville (Program Coordinator), Madison Volunteer House, Indian Student Association