

Arjun Krishna

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EXPERIENCE

SOFTWARE DEVELOPER PYTHON

ihayanow, THE UNIVERSITY OF WATERLOO

Sept 2020 - Present

- Applied Python proficiency to develop a website to connect international students with Canadian professionals using the Django Framework
- Reduced monthly server costs by 55% by migrating user data to a MySQL database using the Google Cloud platform
- Received an "Outstanding" rating due to strong work ethic and excellent communication

3D SCANNING TECHNICIAN PYTHON, 3D SCANNING

AECON INDUSTRIAL, THE UNIVERSITY OF WATERLOO

January 2020 - April, 2020

- Decreased data collection time by 75% and saved 40 staff-hours by creating data-collection and cleaning scripts in Python to collect data for more than 10,000 parts
- Received "Excellent" rating by co-workers for excellent communication and work ethic

PERSONAL PROJECTS

HOW CAN WE BUILD THE MOST FUEL EFFICIENT CAR?

PYTHON

- Conducted linear regression inference on a dataset to determine the most fuel-efficient car design using Python and the Scikit-Learn library
- Prepared a dataset containing 43,156 rows, 83 columns and 477,061 missing values for analysis using the Numpy and Pandas libraries

COVID-19 CONTACT TRACING

C++

- Implemented a Graph Data Structure using C++ to analyze the spread of COVID-19 among a population considering the interactions between them
- Wrote variations of the Breadth-First Search and Dijkstra's Algorithms in C++ to test effectiveness of Physical Distancing and wearing masks to prevent the spread of COVID-19

SKILLS

TECHNOLOGIES

Python • SQL • Git • Linux •
Google Cloud

FRAMEWORKS & LIBRARIES

Django • Pandas • NumPy • Scikit-Learn

EDUCATION

THE UNIVERSITY OF WATERLOO

BASC IN MECHATRONICS ENGINEERING

September 2019 - Present

Extensive Coursework in:

- Statistics
- Data Structures and Algorithms
- Mathematics

AWARDS

THE FOUNTAINHEAD ESSAY CONTEST

- Selected as top 2% of essay writers from 3000 international participants based on writing skills and logical deduction

VALEDICTORIAN

- Voted valedictorian by a class of 300 students due to excellent leadership and communication skills