# ROHAN KASUGANTI

**Computer Science Student**

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## EXPERIENCE

### Software Engineering Intern

**Leidos**

May 2020 – Jul 2020 Remote

- Developed and deployed fixes for four entry-level problem-reports, involving testing, inspection, and signoff
- Improved usability of simulation module by adding configuration options and allowing for graceful termination on error
- Enhanced data recording on operational hardware by adding tracking for network adapter failure counts

### Undergraduate System Administrator

**UMD Physics Department**

Jan 2019 – Present College Park, Maryland

- Expand UMD's LHC Tier 3 computing cluster by upgrading operating systems and configuring new servers and Hadoop nodes
- Manage a team of undergraduate students in maintaining and installing new cluster computing software packages

### Software Team Member

**Robotics @ Maryland**

Sep 2018 – Present College Park, Maryland

- Develop an image-recognition tool using OpenCV for the robot to autonomously detect gates and follow a path underwater
- Interface with embedded systems team to ensure high-level code can be ported and performance targets are being met

### ValueLabs

**Software Engineering Intern**

Jul 2018 – Aug 2018 Hyderabad, India

- Used Selenium and Java to help develop a front-end in-house testing tool
- Led development of a prototype product page using HTML, CSS, and Javascript

## TECHNICAL SKILLS

### Languages

Java | C++ | Python | C | OCaml | HTML/CSS | R

### Technologies

Unix/Linux | Git/Github | AWS | OpenCV | Pandas | Hadoop

## EDUCATION

### B.Sc. in Computer Science

**University of Maryland, College Park**

Aug 2018 – May 2022

- **Concentrations**:
  Data Science Specialization
  Business Analytics and Statistics Minors
- **Cumulative GPA**: 4.0/4.0
- **Honors**:
  University of Maryland Honors College
  CMNS Dean's List
  QUEST Honors Program
- **Relevant Coursework**:
  Organization of Programming Languages
  Algorithms
  Object-Oriented Programming
  Introduction to Data Science
  Data Structures
  Data Modeling in Business
  Introduction to Computer Systems

## PROJECTS

### Neural Network

- Built a simple stochastic gradient descent neural network from scratch
- Trained to recognize and identify hand-written digits, as well as modified to identify real-life objects for application with Robotics @ Maryland

### Hadoop Twitter Analyzer

- Engineered a Hadoop MapReduce application capable of parsing thousands of tweets and sorting by various fields
- Able to identify popular users, hashtags, and specific pairs of hashtags

### Password Protector

- Developed an Android app that generates and saves secure passwords for the user
- Implemented Microsoft's Face API for facial recognition as second-factor authentication