

# KUHU HALDER

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## EXPERIENCE/ PROJECTS

- **Rutgers WINLAB Summer Internship** | (Jul-Aug 2019 | New Brunswick, NJ)
  - Created a project on **Deep Learning Methods for LTE Traffic Data Classification** (<https://deeplearningmethods.wixsite.com/classification>)
  - Collected real-time network traffic data and ran **machine learning** algorithms to see whether non-overlapping clusters exist
  - Implemented classification algorithms such as KNN Classifier and neural networks using **Python** libraries
- **Harvard Summer School - Pre-College Program** | (July 2018 | Greater Boston Area)
  - Selected in a highly competitive summer program to participate in the **Data Analysis with Python** course and designed a project on **Stock Price Predictions and Analysis** (<https://tinyurl.com/y4vfimjn>)
  - Performed feature analysis to generate and analyze the correlation between different factors and the stock prices
  - Predicted future stock prices using Markov Chain Models and Kalman Filter using **Python cufflink** and **plotly** libraries
- **iD-Tech Summer Camp at Princeton University** (June 2018 | Princeton, NJ)
  - Participated in **Artificial Intelligence/ Machine Learning** track and developed a **face recognition and detection program** using the **TensorFlow library of Python** by creating convolutional neural networks
- **hackPHS 2018** | (Nov 2018 | Princeton, NJ)
  - Designed an educational **iOS app using Swift**. Won the 'Best Beginner Hack' category prize

## LEADERSHIP

- **Marketing Director** | Women in Computer Science (Jan 2020-Present)
  - Maintains and updates Women in Computer Science website
  - Manages the ListServ and sends out weekly emails regarding WiCS meetings, opportunities on Sunday night/Monday mornings
  - Creates FB events for all events and promotes events/fliers on FB and Instagram
- **Marketing Organizer** | HackRU (Jan 2020-Present)
  - Manages social media and posts updates and upcoming events occasionally
  - Takes pictures at the hackathons and edits them
  - Promotes outreach to other universities both in-state and out-of-state
- **Honors Ambassador** | SAS Honors Program (Jan 2020-Present)
  - Represents the SAS Honors Program on Scholars Day and promotes it to incoming first-year students by serving as panelists
- **Peer Tutor** | SAS Honors Program (Jan 2020-Present)
  - Tutors fellow students in Introduction to Computer Science and Introduction to Microeconomics
- **Facebook Chair** | Rutgers Douglass-DIMACS Computing Corps (Jan 2020-Present)
  - Posts updates and events to social media to expand marketing by producing publicity materials to enhance social media presence

## WORK EXPERIENCE

- **Coding Tutor at Code Ninjas** (February 2020- Present | Piscataway, NJ)
  - Tutors elementary school students in JavaScript, Scratch, Java and Python
  - Helps debug the code and provides personalized help
- **Academic Tutor at AE2 Learning** (Dec 2018- Jan 2020 | Edison, NJ)
  - Tutors high school students in AP Physics 1, SAT Math, AP Chemistry, Calculus, Pre-Calculus, Geometry, Algebra

## EDUCATION

### RUTGERS UNIVERSITY

New Brunswick, NJ

School of Arts and Sciences Honors Program,

Douglass Residential College

Graduation Date: **May 2023**

**GPA: 3.75/4.0**

Intended Major: **B.S. Computer Science**

Intended Minor: Mathematics

Relevant Coursework: Data Structures, Discrete Structures I, Multivariable Calculus, Honors Intro to Microeconomics, Intro to Linear Algebra

## TECHNICAL SKILLS

- **Python** – TensorFlow, keras, NumPy, Pandas, Matplotlib, scikit-learn
- **Java** – Collection Framework
- **Machine Learning**
  - Supervised Learning
    - Regression
    - Classification- DecisionTree, KNN Classifier, etc.
  - Unsupervised Learning
    - Clustering – KMeans Clustering

## AWARDS

- **Dean's List** (Fall 2019)
- **AP Scholar with Distinction Award** (July 2019)
- **Certificate of Achievement for Excellence in Java** (June 2018)
- **3rd Prize in EXEBIT 2017**, an Inter School Information Technology Festival in Java Coding and Programming
- **2nd Place in "Robo Champ 2017"** an Inter School Robotics Workshop

## VOLUNTEER EXPERIENCE

- **TECH HELP | METUCHEN PUBLIC LIBRARY** (Dec 17- Present | Metuchen, NJ)
  - Assists and teaches senior citizens to use smartphones, tablets, and other electronic devices properly
  - Troubleshoots in case of difficulties
- **VOLUNTEER | HACKRU** (October 2019 | New Brunswick, NJ)
  - Volunteered at the bi-annual hackathon at Rutgers University hosting over 600 hackers
  - Helped with setting up the food table, serving lunch, and checking-in hackers
- **VOLUNTEER | HACKHERS** (February 2020 | New Brunswick, NJ)
  - Assisted with the registration table and helped signing up around 500 hackers
  - Supervised the hardware lab table and also helped with serving lunch to hackers