

# Brian Nieves

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## EDUCATION

### DUKE UNIVERSITY

BACHELOR OF SCIENCE

Expected May 2020 | Durham, NC

Cumulative GPA: 3.64

Major: Computer Science

Minor: Philosophy

Certificate: Decision Science

## SKILLS

**PYTHON** ■ ■ ■ ■ ■  
**JAVA** ■ ■ ■ ■ ■  
**HTML/CSS** ■ ■ ■ ■ ■  
**GIT** ■ ■ ■  
**JAVASCRIPT** ■ ■

## CERTIFICATIONS

### ORACLE CERTIFIED ASSOCIATE

Java SE7 Programmer

### ADOBE CERTIFIED ASSOCIATE

Adobe Photoshop CS6

Adobe Dreamweaver CS6

## COURSEWORK

### UNDERGRADUATE

COMPUTER SCIENCE

Algorithms

Computer Architecture

Data Structures

Machine Learning

Software Design & Implementation

MATHEMATICS

Probability

Multivariable Calculus

Linear Algebra

## EXPERIENCE

### HOUND DATA CENTER DIAGNOSTIC

#### DATA+ SUMMER EXPERIENCE, CONTINUING RESEARCH

JUN 2018 – CURRENT | DUKE UNIVERSITY

- Employing statistical models to identify the causes of poor performance in a data center, improving upon the Hound algorithm.
- Utilizing Apache Spark to parallelize Hound, allowing it to take advantage of the computing power of the servers it is diagnosing when running.
- Expanding upon standard job rescheduling strategies using Hound to better identify ways to allocate resources in a data center.

### RESEARCH ASSISTANT | MOTIVATED MEMORY LAB

JAN 2018 – CURRENT | DUKE UNIVERSITY

- Developing tasks in HTML/JavaScript that collect various types of data from study participants.
- Hosting the tasks on Amazon Mechanical Turk using Psiturk and the Boto3 Python API for large scale data collection and participant control.
- Discussing scientific methods and proper analysis for task data, with intentions of co-running a study and publishing the results.

### VOOGAPEACHES | CLASS PROJECT

NOV 2017 – DEC 2017 | SOFTWARE DESIGN & IMPLEMENTATION

- Developed a Video Game Authoring Environment by working in a team of nine people using a Scrum framework over the course of six weeks.
- Built an object oriented and intuitive user interface using JavaFX while balancing the needs of the backend and controller code.
- Implemented user data which allowed individual users of the program to maintain their own customized workspace, including theme and layout.

### OPERATIONS ANALYST | TOUFAYAN BAKERY OF PLANT CITY

JUL 2016 – AUG 2016 | PLANT CITY, FL

- Measured and recorded various types of data relating to weights and moisture levels of baked goods such as cookies and bread.
- Visualized recorded data using Excel by creating tables, charts and graphs. Added statistical tests to verify uniformity and adherence to specifications for moisture and weight levels.
- Analyzed down-time data for each of the bakery's conveyor belts by pulling from an Access database to Excel and applying complex formulas to create dynamic reports on causes for down-time for each belt.