# **OZAN ERDAL**

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### **PROJECTS**

### Modeling the Spread of COVID-19

#### Individual

**March 2020** 

Seattle, WA

- Used existing medical knowledge about previous virus outbreaks to simulate and predict the spread of SARS-CoV-2 in its early growth stage.
- Tags: Differential Equations, Continuous Modeling

### Music Classifying A.I.

#### Individual

## February 2020

**♀** Seattle, WA

- Uses linear discriminant analysis (LDA) in conjunction with time-frequency analysis of audio waveforms to classify music by artist as well as its genre will over 80% success on the test set.
- Tags: MATLAB, Git, Linear Algebra

### **NBA Shooting Trend Analysis**

#### Group of 2

# April 2019 - June 2019

Seattle, WA

- Completed statistical data analysis and visualization for performance analysis
  of individuals over time, in particular, the progression of shooting trends in the
  NBA through its history. Delved into the success of the NBA's greatest players
  to understand the shift in playstyle in the recent years.
- Tags: Python, Numpy, pandas, scikit learn

### **NBA Fantasy League Comparison Tool**

#### Group of 3

**May 2019** 

Seattle, WA

- Created and deployed visualization tool for easily viewing up-to-date statistics and for comparing NBA players to enhance Fantasy Basketball fans' trading experience and ability. Tool uses official NBA API for accurate, real-time information.
- Tags: R, R Shiny, Bootstrap

### **EXPERIENCE**

### Pi Alpha Phi

### **Nation's Oldest Asian Interest Fraternity**

March 2018 - June 2020

Seattle, WA

- Vice President
- Planning large gatherings and banquets of up to 100 people.
- Serving as primary liaison between fraternity and University's Office of Fraternity Sorority Life.
- Webmaster
- Rebuilding and maintaining of fraternity website using React.js.
- Producing all promotional content for upcoming philanthropy or recruitment events.

### **EDUCATION**

B.S. in Applied and Computational Mathematics - 3.46 GPA

#### University of Washington, Seattle

## Sept 2016 - June 2020

- Specialization in Scientific Computing and Numerical Algorithms
- Minor in Informatics

### STRENGTHS

Numerical Methods | Machine Learning |
Fourier Analysis | Linear Algebra |
Scripting | Computational Data Analysis |
Version Control | Differential Equations |
Predictive Modeling | Data Visualization |
Physics | Technical Writing |

### CODING PROFICIENCY

MATLAB Python Javascript R SQL



# **RELEVANT TOOLS**

Microsoft Office Suite Terminal
Adobe Creative Cloud Suite LaTeX
Git/Github Jupyter Heroku
pandas TensorFlow

## **HONORS**

Dean's List

7x Recipient

## Fall 2016 - Spring 2020

Chapter of the Year

Pi Alpha Phi National Convention

Most Implemented Project

**UW Information School Project Fair** 

Leadership Development

Alpha Phi Omega LEADS Program

₩ Winter 2018