# Min Soo Kim



mk374@duke.edu



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(949)648-9993

mk374.github.io

### Education

### **BS** | Computer Science **BA** | Japanese

Duke University | 2021

- Major GPA: 4.0
- Cumulative GPA: 3.94

### Coursework

Discrete Math for Computer Science Data Structures and Algorithms **Probability and Statistics** Database Systems Computer Architecture Real-world Algorithms Linear Algebra Multivariable Calculus

### Skills

### **Coding Languages**

Expert Python, Java, JavaScript **Proficient** Swift, C, C++, HTML/CSS

### **Tools**

Google Tensorflow Google Firebase Google Cloud Unix/Linux Selenium Xcode iOS

### Languages

Fluent Korean • Japanese Conversational Spanish Learning Chinese

# Achievements

### Academic

APS Institute Scholarship Dean's List with Honors Academic All-American

#### Athletic

U.S. Archery Record Holder U.S. Ntl. Archery Champion (2017)

# Work Experience

### Duke University; Dept. of Computer Sciences | May 2019 - Present Research and Development Intern

- Ported audio fingerprinting library from Python to JavaScript for a web server and created JavaScript methods that mimic NumPy's functionalities (Real Discrete Fourier Transformation, Stride Tricks)
- Implemented landmark-based audio fingerprinting into FactStream iOS app, enabling it to detect the location of a query audio sample in a database of 10k+ speeches

### Duke University: Data Sciences Program | Sept 2018 - May 2019 Undergraduate Researcher

- Leveraged Google's TensorFlow to train a convolutional neural network to identify location of Brachial Plexus nerve bundle
- Researched and developed a 10-layer U-Net Architecture, with Image Augmentation, training on 10k+ images, resulting in 80% accuracy rate

### Duke University; Dept. of Computer Sciences | Aug 2018 - May 2019 **Undergraduate Teacher Assistant**

- Generated CSV reports from Gradescope, containing data from over 200 students' assignments, regrades, and surveys, impacting future course teaching decisions
- Led 2 discussion sections of 30+ students for CS101: Introduction to Computer Science

# Select Projects

### Dice! github.com/mk374/dice

- Developing an iOS app that gives users a randomized itinerary/schedule of a day-trip optimizing location, duration, and finance
- Built Python script that pulls data from Yelp's and Google's API's, regarding restaurants and their respective distance from each other, to populate a MongoDB (NoSQL) database and expose it as a REST API

### Ride Organizer github.com/mk374/RiderApp

 Developed a Web Application, using HTML, CSS, and JavaScript (Bootstrap) that utilized Google Firebase(NoSQL) databases to help organize rides/carpools for any group size

### Concentration Card Game github.com/mk374/Concentration

• Created an iOS (Swift) pair-matching card game that focuses on Motion-View-Controller frameworks and different iOS View Controllers

# Extra-curriculars

### **Duke Archery Club** Co-Founder and President

- Led a team of over 20 members, and ranked 3rd and 9th place at the US National Indoor Championship
- Received a \$5,000 grant from the United States Archery Association and Fivics Archery Corporation for archery equipment