

# KAIWEN SHEN

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## SKILLS

- Java, C, MATLAB, Python, javascript, Swift, HTML/CSS, LTSpice
- Fluent in English and Chinese
- Good communication, intercultural, teaming, problem solving, public speaking, time management skills

## EDUCATION

### Purdue University, West Lafayette

May 2022 (Expected)

- B.S. Computer Engineering, Minor in Mathematics and Economics
- GPA: 3.99
- Honors College
- Eta Kappa Nu: the honor society of IEEE
- Awards: Dean's List & Semester Honors (Fall 2018, Spring 2019)
- Study Abroad: Dublin, Ireland - May 2019
- Learning Community: Purdue University Global Engineering - Fall 2018

## Experience

### Purdue University - Teaching Assistant ECE26400

Jan 2020 - May 2020

- Supervise and tutor 100+ students in ECE 26400 (Advanced C Programming)
- Work closely with professors and faculty members to ensure optimal student success in the course.

## Research

### Data Analytics for Cancer Diversity and Correlation (DURI program)

Jan 2020 - PRESENT

- Interdisciplinary research project to develop a computationally efficient and interpretable prediction model for cancer molecular portraits.
- Develop multi-view co-clustering models to integrate data from different platforms and identify molecular clusters through model interpretation.

### Vehicle Re-Identification: A Clustering Approach (SURF program)

May 2020 - PRESENT

- Computer vision/data analysis research project to identify target vehicle within a system of video cameras (vehicle reidentification).
- Create of a new query processing engine in vehicle reidentification utilizing a clustering approach with CityFlow dataset.

## Projects

### Clothes Choice - <http://www.kaiwenshen.com/clotheschoice/>

Aug 2019 - PRESENT

- Retrieve weather data of specific cities (user input) using python APIs then present to users what types of clothes to wear in order to stay warm/cool. Currently implemented as a website, In progress to implement Swift version of the program.

### NBA Prediction - [https://github.com/k-shen/NBA\\_pred](https://github.com/k-shen/NBA_pred)

Jun 2020 - PRESENT

- Create a growable NBA dataset using different types of team data and game records from NBA.com.
- Utilize Keras Sequential Neural Network and Ridge regression models to predict game result and score.

## Leadership

### Purdue Student Engineering Foundation (<https://engineering.purdue.edu/PSEF/>) - Member

Feb 2020 - PRESENT

- Lead engineering campus tour for prospective students and family.
- Facilitate outreach events for high school students to engage interest in the engineering field.
- Help maintain/create pages of the website.

## **Purdue Honors College Global House Mentor** - *Mentor*

**Jul 2020 - PRESENT**

- Transnational community within the Honors College.
- Provide mentorship and leadership to other first year/continuing international honors students especially under the pandemic situation.

## **Purdue University Association for Computing Machinery** - *Member*

**Aug 2018 - PRESENT**

- SIG AI: Formulate generic multivariate linear regression model to solve machine learning questions.
- SIG AI: Develop primitive algorithm utilizing tensorflow and visual sensor to train machine to peel fruit.
- SIG APP: Create original android based projects for certain university futures such as laundry and safewalk using Flutter.

## **Purdue University Dance Marathon (PUDM)** - *Committee Member*

**Mar 2019 - Mar 2020**

- Facilitate event for PUDM with over 100 participants and fundraise for Riley Children's Hospital.