

## SKILLS

- Java, C, Python, Golang, MATLAB, Javascript, Swift, HTML/CSS, SQL/sqlite, C++, Vue.js, React, flask, git, shell
- Data Structure and Algorithms, REST API, Object Oriented Programming, Data Analysis, Machine Learning
- Fluent in English and Chinese

## EDUCATION

### Purdue University, West Lafayette

May 2022 (Expected)

- B.S. Computer Engineering, Minor in Mathematics and Business Economics
- GPA: 3.99, Honors College
- Eta Kappa Nu: IEEE Honors Society
- Awards: Dean's List & Semester Honors (All semesters at Purdue)
- Study Abroad: Dublin, Ireland - May 2019

## EXPERIENCE

### Pendo.io: Software Engineering Intern

Jun 2021 - Aug 2021

- Designed, developed, and presented a generic and scalable comment model for Pendo's Guide alerts (model designed to support future usages on other Pendo products).
- Produced code within the Pendo codebase on both Backend (using Golang) and Frontend (using Vue.js) and established RESTful API endpoints with Google Cloud Storage operations.
- Worked in an Agile/Scrum environment in a team setting with cross-team collaborations. Participated in all sprint activities.

### Purdue University: Teaching Assistant

- ECE 36800 (Data Structure) Aug 2020 - May 2020
- ECE 26400 (Advanced C Programming) Jan 2020 - May 2020
  - Work closely with professors and faculty members to supervise and tutor 200+ students.

### Clique: Spatialtemporal Object Re-identification at the City Scale

May 2020 - Dec 2020

- Second author of computer vision/data journal, published at USENIX symposium ODSI'21 (<http://arxiv.org/abs/2012.09329>).
- Engineered a new query processing engine for object reidentification problems with large scale video data that is competitive in accuracy and advantageous in run time compared to existing algorithms.

### Data Analytics for Cancer Diversity and Correlation

Jan 2020 - Aug 2020

- Participated in the interdisciplinary project aimed to develop a model for identifying cancer subtypes using TCGA's data.
- Developed a multi-view co-clustering model on RNA sequence data to identify molecular clusters.

## PERSONAL PROJECTS

### What2wear- <http://www.kaiwenshen.com/what2wear/>

Aug 2019 - PRESENT

- Built a web page that retrieves location and weather data of different cities using APIs and presents users with a combination of weather appropriate attire.

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

Jun 2020 - PRESENT

- Constructed a growable NBA dataset with various categories of team data, scraped using python and regular expression.
- Utilized Tensorflow Keras Sequential Neural Network and Ridge regression to predict game result and winning margin.

## LEADERSHIP

### Purdue Student Engineering Foundation - Director

Feb 2020 - PRESENT

- *Tech Committee Director*: oversee operations of the technology committee of PSEF, maintain the PSEF website <https://engineering.purdue.edu/PSEF/>, assists other committees in technological areas.
- Lead engineering campus tour for prospective students and family and facilitate outreach events for high school students to engage interest in the engineering field.