

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/Grader

- ECE 39595 (Object Oriented Programming C++) Aug 2021 - PRESENT
- ECE 36800 (Data Structure) Aug 2020 - May 2021
- ECE 26400 (Advanced C Programming) Jan 2020 - May 2020
 - Work closely with professors and faculty members to supervise and tutor 200+ students and evaluate course work.

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

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/families and facilitate outreach events.