

# Yi-Yang Lin

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## EDUCATION

University of Wisconsin – Madison

Sep 2018 – Dec 2021 (expected)

Computer Science, Bachelor of Science

Madison, WI, USA

**Courses:** *Artificial Intelligence, Algorithm, Computer Engineering, Computer Graphics, CS Education, Data Structure, Database Management Systems, Data Programming, Machine Organization, Operating Systems, Software Engineering*

Bellevue College

Jun 2018

Computer Science, Associate Arts & Sciences with **Distinction**

GPA 3.95 Bellevue, WA, USA

## EXPERIENCE

Computer Science Learning Center at University of Wisconsin – Madison

Jan 2019 – May 2019

CS Tutor

Madison, WI, USA

- Recorded a short YouTube video demonstrating Basic **Makefile** instructions helping students understand concepts in programming class.
- Tutored 50+ students on cs course programming projects in **Java** and discuss tutoring improvement with staff.

**BETTER - Cup Rental System** (start-up)

May 2019 – Aug 2019

Software Technician

National Taiwan University, Taiwan

- Maintained a cup rental system to solve the mass waste problem of disposable cups cooperated with merchants.
- Worked in a diverse group consists of students from different cultures and backgrounds.

## PROJECTS

**Wardrobe (JavaScript)** ([www.wardrobe.rocks](http://www.wardrobe.rocks))

Jan 2020 – May 2020

- Ranked **top 10** out of 150 Proposals in Software Engineering Course.
- A web application helps user deciding wearing outfits by uploading physical clothing pictures into virtual wardrobe.
- Created an **AI picture background removal feature** with **remove.bg web API** by modified **Google cloud functions**.
- Summary: **Front-end(react.js)**, **Back-end(firebase)**, **API**, **Server(netlify)**, **Testing methods**, project management.

**Buffer Manager - B+ Tree Index Manager (C++)**

Sep 2019 – Dec 2019

- Built a structure on top of the **pages** that get from the **I/O Layer** to the nodes of the **B+ tree**.
- Utilized indices stored in its data in a file on **disk**, creating a disk image of the index file.
- Summary: **Data Structure, Database Management systems**.

**3D Graphics Town (JavaScript)** ([www.yiyang.pro](http://www.yiyang.pro))

Jan 2019 – May 2019

- Incorporated an interactive graphic website using **THREE.js** for creating 3D animations and applying **Bezier curve** to structure objects' motions so camera views can be manipulated.
- Summary: Structure of web development in **HTML / CSS, JS, Git, WebGL, Computer Graphics** course concepts.

**Meal Plan Analysis (Java)** ([www.yiyang.pro](http://www.yiyang.pro))

Sep 2018 – Dec 2018

- Created a meal plan in **object-oriented database** system with **GUI** program implemented by **B+ tree** that users are able to interact with the food list and choose ingredients to build their own.
- Integrated an analyzed statistic file from selected food list functions including filter, calories, fat, carbon, etc.
- Cooperate the Design with teammates in **Java ADT** interfaces and implement effective work within flowcharts.
- Summary: GUI library for Java SE, Database Management, **Version-control** System GitHub with teammates.

## SKILLS

**Programming**

C / C++, Python, Java, SQL, JavaScript, TypeScript, Assembly Language, OpenGL, WebGL

**Web**

HTML, CSS, Vue.js, React.js, three.js, node.js, netlify, Bootstrap

**Tools**

Unix / Linux, LaTeX, Unit Testing, Json, SQL Server, Git / GitHub, Makefile, Jupyter Notebook, Firebase, Google Cloud, Agile, MVC