Yi-Yang Lin

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EDUCATION

University of Wisconsin – Madison   Sep 2018 – Dec 2020 (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 at National Taiwan University (start-up)   May 2019 – Aug 2019
Software Engineer   National Taiwan University, Taiwan
- Maintained a cup rental system (**MongoDB**) to solve the mass waste problem of disposable cups cooperated with shops.
- Worked in a diverse group consists of students from different cultures and backgrounds.

PROJECTS

Wardrobe (*JavaScript*) (**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**)   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**)   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