

Yi-Yang Lin

☎ (+1) 206-355-2065 | ✉ yiyanglin0102@gmail.com | 🌐 yiyang-lin | 🌐 yiyanglin.com

No.52 Chenghe 5th ST., Huwei Township, Yunlin County, Taiwan(R.O.C.)

EDUCATION

University of Wisconsin – Madison

Sep. 2018 – Exp. May 2022

Computer Science, Bachelor of Science

Madison, WI

Courses: Algorithms*, Artificial Intelligence*, Advanced Calculus, CS Education, Computer Engineering, Computer Graphics, Data Programming, Data Structure, Database Management Systems*, Discrete Mathematics, Linear Algebra, Machine Organization & Programming, Operating Systems*, Software Engineering*

(* indicates advanced courses)

Bellevue College

Sep. 2016 – Jun. 2018

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

Bellevue, WA

WORK & RESEARCH EXPERIENCE

Intel Corporation (INTC)

Taipei City, Taiwan

RF WIRELESS DRIVER VALIDATION ENGINEER IN CROSS-VALIDATION TESTING TEAM

Full-Time Jan. 2021 – Nov. 2021

- Tested OSI Physical Layers of Wireless Adapter Driver (Bluetooth / WiFi) with Microwave Analyzer in *WCS Lab*
 - Ensured daily regression delivered expected performance with each dev commit.
 - Clarified physical issues that may not relate to driver performance.
 - Researched the Transmission and Reception performance with testing flows with *HIT Manager* and *Keysight* equipment.
- Implemented and Maintained Hardware or Software Regression Automatic Validation Tools
 - Maintained automation Cloud-based Infrastructure *Titan* to monitor each RF shielding station.
 - Created automatic scripts and wrote documentations to resolve configuration issues.
 - Setup testing operating system by scripting languages and arranged RF shielding room environments.
- Intel Wireless Adapter Driver Validation
 - Delivered accurate daily regression results from 100+ PC stations located Israel, India, Taiwan to code dev team.
 - Differentiated issues affected by which develop teams and discuss on *JIRA* platform.

Computer Science Learning Center at University of Wisconsin–Madison

Madison, WI

CS TUTOR

Part-Time Jan. 2019 – May 2019

- Recorded YouTube video demonstrating *Makefile* instructions, helping students understand concepts in programming class.
- Discussed with tutors in educational pedagogy and general teaching practices within weekly seminars.
- Tutored 50+ students on cs course programming projects in Java and discuss tutoring improvement with staff.

BETTER - Cup Rental System (student start-up)

National Taiwan University, Taiwan

SOFTWARE ENGINEER

Part-Time May 2019 – Aug. 2019

- Operated a cup rental system to solve the mass waste problem of disposable cups and cooperated with merchants.
- Maintained software database tools with technical members.
- Worked in a diverse group consisted of students from different cultures and backgrounds.

SKILLS

Programming Languages

C / C++, Python, Java, SQL, JavaScript, TypeScript, Assembly, Scripts Languages

Web

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

Tools

Unix / Linux, LaTeX, Unit Testing, Json, SQL Server, Git, Makefile, Firebase, GCP, Agile, MVC

HONORS & AWARDS

2021	Lecturer , Intel WIFI xVT Regression Team Conference	Taipei, Taiwan
2020	Top 10 voted proposal, UW CS. Against 150+ software engineering project proposals.	Madison, WI
2018	Phi Theta Kappa Honor Society , member of	Bellevue, WA

SOFTWARE TOOLS & TECHNIAL PROJECT

2021	Jira Bug Auto-Reporter , Intel xVT Team Web crawler, automatically report suspected bugs from daily regression and deliver to code develop teams.	Python3 Selenium
2021	Regression sum-reporter , Intel xVT Team Sum-up each station analysis to a final report, detected file dependencies and combined by configuring CSV, XML, file structure.	Python3 BeautifulSoup
2021	Server Report Sync History Batch scripts , Intel xVT Team Maintaining WiFi driver analysis validation report history in mirror servers.	Batch
2021	BIOS UEFI Testing OS Image Doc. , Intel WCS Wrote a doc for Testing environment setup, downloading default testing OS Windows from Intel's servers around the earth.	Technical Documentation
2021	Unix Shell - wish , Operating Systems Created a command line interpreter (CLI), having functions to read executables in built-in commands, read parallel commands by &, redirection > .	C
2019	Dynamic Memory Allocation , Machine Organization & Programming Imported system calls sbrk, malloc, free, to dynamically manage heap memory using next-fit placement policy.	C System Calls
2018	Meal Plan Analysis , Data Structure Meal database system with GUI, food choosing analysis	java / Javafx
2019	Buffer Manager , Database Management Systems Structured top of pages from I/O Layer by B+ tree structure, utilized indices stored data in file on disk, creating a disk image of the index file.	C++
2020	Wardrobe , Software Engineering Web application helps user deciding wearing outfits by uploading physical clothing pictures into firebase virtual wardrobe, created an AI background removal feature with remove.bg API by modified Google cloud functions.	JavaScript / react backend API git / GCP
2019	3D Graphics Town , Computer Graphics Interactive graphic website using THREE.js for creating 3D animations and applying <i>Bezier</i> curve to structure object's motion, manipulated camera views.	JavaScript WebGL
2019	Maze Solver , Artificial Intelligence Applied BFS algorithm to search target in 2D maze, added successors to the queue that implements the frontier set for searching method.	Java
2019	Query Tuning , Database Management Systems Query optimization improved performance more than 98% by implementing index, instance, pre-defined table, sub-query.	SQL SQL Server
2021	Personal Website , <i>yiyanglin.com</i> Implemented Sass, created email message system by Formspre, to present personal, projects, contact information.	JavaScript Frontend / Scss

LEADERSHIP & EXTRACURRICULAR ACTIVITY

TUSO (Taiwanese Undergraduate Student Organization) Event Coordinator	Madison, WI
<ul style="list-style-type: none"> Invited students and people from UW-Madison and public area. Participated and Coordinated night market event and other traditional events from Taiwan. 	
Taiwanese Student Association of Bellevue College Financial Analyst and Event Coordinator	Bellevue, WA
<ul style="list-style-type: none"> Coordinated night market festival by designing games, contacting vendors, and working with school administration to set up the venue. 	
Issaquah Swim team (IST) Volunteer Timer	Issaquah, WA
<ul style="list-style-type: none"> Setup a safe environment for swimmers and announced long course (50m) records. 	
COVID-19 Vaccination Clinic General Computer Health Insurance System Maintenance	Yunlin, Taiwan
<ul style="list-style-type: none"> Assisted clinic faculty sync vaccine receivers' data to government cloud database. Managed health insurance cards and checked with patients. 	