

# Yi-Yang Lin

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## EDUCATION

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### University of Wisconsin–Madison

WI, USA

#### B.S. in Computer Science

Sep. 2018 – Exp. May 2022

- **Major GPA:** 3.22/4.0
- **Upper-level Major GPA:** 3.29/4.0
- **CS 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 and Programming, Operating Systems\*, Software Engineering\*

(\* indicates advanced courses)

### Bellevue College

WA, USA

#### A.A.S. in Computer Science with Distinction

Sep. 2016 – Jun. 2018

- **College Level GPA:** 3.95/4.0

## WORK & RESEARCH EXPERIENCE

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### Intel Corporation (INTC)

Taipei, Taiwan

#### RF WIRELESS DRIVER VALIDATION ENGINEER IN CROSS-VALIDATION-TESTING TEAM

Full-Time Jan. 2021 – Nov. 2021

- Tested OSI Physical Layer 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 not related to driver performance.
  - Researched the Transmission and Reception performance with testing flows in *HIT Manager* and *Keysight* equipment.
- Implemented and Maintained Hardware or Software Regression Automation Validation Tools
  - Maintained automation Cloud-based Infrastructure *Titan* to monitor each RF shielded station.
  - Created automatic scripts and wrote documentations to resolve configuration issues.
  - Set up testing operating system by scripting languages and arranged RF shielded room environments.
- Intel Wireless Adapter Driver Validation
  - Delivered accurate daily regression results from 100+ PC stations located in Israel, India, Taiwan to code develop team.
  - Differentiated issues affected by which develop teams and discussed on *JIRA* platform.

### COVID-19 Vaccination Clinic

Yunlin, Taiwan

#### GENERAL COMPUTER HEALTH INSURANCE SYSTEM ENGINEER

Part-Time Sep. 2021 – Jan. 2022

- Assisted clinic faculty sync vaccine receivers' data to government cloud database.
- Managed health insurance cards and checked personal medical history with patients.

### Computer Science Learning Center at UW-Madison

WI, USA

#### COMPUTER SCIENCE TUTOR

Part-Time Jan. 2019 – May 2019

- 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.
- Recorded YouTube video demonstrating *Makefile* instructions, helping students understand concepts in programming class.

## SKILLS

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### Programming Languages

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

### Web

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

### Tools

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

## HONORS & AWARDS

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

## TECHNICAL PROJECTS & SOFTWARE TOOLS

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2021	<b>Jira Bug Auto-Reporter</b> , <i>Intel</i> xVT Team: Web crawler, automatically report suspected bugs from daily regression and deliver to code develop teams.	Python3 Selenium
2021	<b>Regression Sum-Reporter</b> , <i>Intel</i> 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	<b>Server Report Sync History Batch scripts</b> , <i>Intel</i> xVT Team: Maintaining WiFi driver analysis validation report history in mirror servers.	Batch
2021	<b>BIOS UEFI Testing OS Image Doc.</b> , <i>Intel</i> WCS: Wrote a doc for Testing environment setup, downloading default testing OS Windows from Intel's servers around the earth.	Technical Documentation
2021	<b>Unix Shell - Wish</b> , Operating Systems: Created a command line interpreter, having functions to read executables in built-in commands, read parallel commands by &, redirection > .	C
2021	<b>Personal Website</b> , <i>yyanglin.com</i> : Implemented Sass, created email message system by Formspre, to present personal, projects, contact information.	JavaScript Frontend / Scss
2020	<b>Wardrobe</b> , Software Engineering: Web application helps user with outfit decision 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	<b>Buffer Manager</b> , 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++
2019	<b>Dynamic Memory Allocation</b> , Machine Organization and Programming: Imported system calls sbrk, malloc, free, to dynamically manage heap memory using next-fit placement policy.	C System Call
2019	<b>3D Graphics Town</b> , 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	<b>Maze Solver</b> , 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	<b>Query Tuning</b> , Database Management Systems: Query optimization improved performance more than 98% by implementing index, instance, pre-defined table, sub-query.	SQL SQL Server
2018	<b>Meal Plan Analysis</b> , Data Structure: Meal database system with GUI, food choice analysis	java / Javafx

## LEADERSHIP & EXTRACURRICULAR ACTIVITY

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### Taiwanese Undergraduate Student Organization

WI, USA

#### Event Coordinator

- Invited students and faculties from University of Wisconsin-Madison and public area.
- Participated and Coordinated night market event and other traditional events from Taiwan.

### Issaquah Swim Team

WA, USA

#### Timer Volunteer

- Set up a safe environment for swimmers and announced long course (50m) records.

### BETTER Cup Rental System - student startup at National Taiwan University

Taipei, Taiwan

#### Software Engineer

- 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.

### Computer Science Summer Camp at National Cheng Kung University

Tainan, Taiwan

#### Participant

- NCKU's professors taught programming and introduced various academic CS courses.
- Programmed a game and won the Best Program Design Award among all participants.