Yi-Yang Lin

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EDUCATION

Boston University   *MA, USA*

M.S. in Computer Science   *Sep. 2022 – May 2024*

- **GPA**: 3.57/4.0   *(expected)*
- **Courses**: Advanced Programming Techniques, Computer Language Theory, Graduate Operating Systems, Mobile Application Development with Android, Web Application Development, Software Design and Patterns

University of Wisconsin–Madison   *WI, USA*

B.S. in Computer Science   *Sep. 2018 – May 2022*

- **Advanced Major GPA**: 3.41/4.0
- **Courses**: Algorithms, Artificial Intelligence, Advanced Calculus, Building User Interfaces, CS Education, Computer Engineering, Computer Graphics, Data Programming, Data Structure, Database Management Systems, Discrete Mathematics, Linear Algebra, Machine Organization, Software Engineering

Bellevue College   *WA, USA*

A.A.S. DTA in Computer Science with Distinction   *Sep. 2016 – Jun. 2018*

- **GPA**: 3.95/4.0

WORK & RESEARCH EXPERIENCE

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.

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

Programming Languages
Assembly, C / C++, Java, JavaScript, Python, PHP, Scripting Languages, SQL, TypeScript, Kotlin
Web
HTML, CSS, XML, Sass, Vue.js, React, React Native, three.js, node.js, netlify, Bootstrap
Tools
Agile, CLI Shell, Firebase, GCP, Git, Jira, Json, LaTeX, Makefile, MVC, Selenium, SQL Server, Unit Testing, Unix / Linux

HONORS & AWARDS

2021	**Talk**, *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*

TECHNIAL PROJECTS & SOFTWARE TOOLS

2022	**Social Media Video Downloader**, *Advanced Programming Techniques***:** Designed to parallel download videos from video platforms such as YouTube, Instagram, and TikTok, based on given keywords and links.	*Python* *Shell Script* *JavaScript / Web*
2022	**FitnessTrack**, *Android Development***:** Allows users to record the food items they eat at each meal and assign a health rating to each meal.	*Kotlin* *Java*
2022	**WiscShop**, *Voice User Interface***:** Virtual assistant agent, allows user to request navigations, purchasing products by asking virtual assistant agent.	*JavaScript* *Dialogflow*
2022	**Fitness Tracker**, *Mobile User Interface***:** iOS/Android app, designed a fitness tracking mobile app in react native, expo, and RESTful APIs, storing health information on API server.	*JavaScript* *React Native*
2022	**Course Guide System**, *User Interface***:** React app, online course selection system, implemented rating and course recommendation system based on user interests.	*JavaScript* *React*
2021	**Jira Bug Auto-Reporter**, *Intel* xVT Team**:** Web crawler, automatically report suspected bugs from daily regression and deliver to code develop teams.	*Python* *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.	*Python* *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, having functions to read executables in built-in commands, read parallel commands by &, redirection > .	*C*
2020	**Wardrobe**, 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* *git* *backend API / GCP*
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++*
2019	**Dynamic Memory Allocation**, Machine Organization and Programming**:** Imported system calls sbrk, malloc, free, to dynamically manage heap memory using next-fit placement policy.	*C* *System Call*
2019	**3D Graphics Town**, Computer Graphics**:** Interactive graphic website using THREE.js for creating 3D animations and applying *Bezier* 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*
2018	**Meal Plan Analysis**, Data Structure**:** Meal database system with GUI, food choice analysis.	*Java / JavaFX*

LEADERSHIP & EXTRACURRICULAR ACTIVITY

BRIDGE International Peer Mentor Program   *WI, USA*
Peer Mentor
- Built the environment for cross-cultural friendships and community participants of diverse backgrounds.
- Participated and peered with my German American friend, exchanging cultural experiences.

Wisconsin Union Badger Market at Medical Science   *WI, USA*
Food & Beverage
- Became a barista of coffee shop and served toasted sandwiches.