# Yi-Yang Lin

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## **EDUCATION**

Boston University MA, USA

#### M.S. in Computer Science

Sep. 2022 - May 2024

• **GPA**: 3.62/4.0

(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

Advanced Major GPA: 3.41/4.0

Sep. 2018 – May 2022

• **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**

Google LLC Taipei, Taiwan

# **ENGINEERING INTERN**

Full-Time Jun, 2023 – Aug. 2023

- Pixel Mobile Wireless, Software Engineering
- Designed Python Script for connecting C++ Configuration files, inputting to signaling equipment.
- Implemented infrastructure Piper, google3, CLs tools for designing Script, connecting input for Pixel RF testing equipment.
- Utilized SQL querying data from *Spanner* database to generate *combo key* data structures.

Intel Corporation Taipei, Taiwan

#### WIRELESS SOFTWARE 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 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, Scripting Languages, SQL, TypeScript, Kotlin **Web** 

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

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

# **HONORS & AWARDS**

2023	Talk, 5G Registration Procedure, Google Pixel Mobile Wireless Team	Taipei, Taiwan		
2023	Sigma Xi, Scientific Research Honor Society, member of	Boston, MA		
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				

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2022	Social Media Video Downloader, Advanced Programming Techniques: Designed to  Python		
	parallel download videos from video platforms such as YouTube, Instagram, and TikTok,  Shell Script		
	based on given keywords and links.  JavaScript / Web		
2022	FitnessTrack, Android Development: Allows users to record the food items they eat at each  Kotlin		
	meal and assign a health rating to each meal.  Java		
2022	WiscShop, Voice User Interface: Virtual assistant agent, allows user to request navigations,  JavaScript		
	purchasing products by asking virtual assistant agent.  Dialogflow		
2022	Fitness Tracker, Mobile User Interface: iOS/Android app, designed a fitness tracking mobile  JavaScript		
	app in react native, expo, and RESTful APIs, storing health information on API server.  **React Native**		
2022	Course Guide System, User Interface: React app, online course selection system,  JavaScript		
	implemented rating and course recommendation system based on user interests.  **React**		
2021	Jira Bug Auto-Reporter, Intel xVT Team: Web crawler, automatically report suspected bugs  Python		
	from daily regression and deliver to code develop teams.  Selenium		
2021	Regression Sum-Reporter, Intel xVT Team: Sum up each station analysis to a final report,  Python		
	detected file dependencies and combined by configuring CSV, XML, file structure.  **BeautifulSoup**		
2021	Server Report Sync History Batch scripts, Intel xVT Team: Maintaining WiFi driver  Batch		
	analysis validation report history in mirror servers.		
2021	BIOS UEFI Testing OS Image Doc., Intel WCS: Wrote a doc for Testing environment setup,  Technical		
	downloading default testing OS Windows from Intel's servers around the earth.  **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			
2020	Wardrobe, Software Engineering: Web application helps user with outfit decision by JavaScript / React		
	uploading physical clothing pictures into firebase virtual wardrobe, created an AI background git		
	removal feature with remove.bg API by modified Google cloud functions. 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.		
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.  System Call		
2019	<b>3D Graphics Town</b> , Computer Graphics: Interactive graphic website using THREE.js for creating JavaScript		
	3D animations and applying Bezier curve to structure object's motion, manipulated camera views. WebGL		
2019	Maze Solver, Artificial Intelligence: Applied BFS algorithm to search target in 2D maze, added Java		
	successors to the queue that implements the frontier set for searching method.		
2019	Query Tuning, Database Management Systems: Query optimization improved performance SQL		
	more than 98% by implementing index, instance, pre-defined table, sub-query.  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

- 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.