# Yi-Yang Lin

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#### EDUCATION

**Boston University** MA, USA

# M.S. in Computer Science - Certificate in Health Informatics

Sep. 2022 - May 2024

**GPA**: 3.62/4.0 (expected)

Courses: Advanced Health Informatics, Advanced Programming Techniques, Biomedical Sciences and Health IT, Computer Language Theory, Graduate Operating Systems, Health Informatics, Health Information Systems, Mobile Application Development with Android, Server-Side Web Development, Software Design and Patterns, Web Application Development

## University of Wisconsin-Madison

WI, USA

#### **B.S.** in Computer Science

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

Sep. 2018 - May 2022

**GPA**: 3.95/4.0

# **WORK & RESEARCH EXPERIENCE**

Google LLC Remote / Taipei, Taiwan

#### ENGINEERING INTERN in Software Engineering, Pixel Mobile Wireless

Full-Time Jun, 2023 – Aug. 2023

- 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** Remote / Taipei, Taiwan

#### RF WIRELESS DRIVER VALIDATION ENGINEER in Cross-Validation-Testing

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, Scripting Languages, SQL, TypeScript, Kotlin Web

HTML, CSS, XML, Sass, Vue.js, React.js, React Native, three.js, node.js, netlify, Bootstrap, PHP, AWS, GCP Tools

Agile, Firebase, 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	Taipei, Taiwan	
2023	Sigma Xi, Scientific Research Honor Society, member of	Boston, MA	
2021	Talk, Intel WIFI xVT Regression	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 DDO IECTS & SOFTWARE TOOLS			

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2018 Phi Theta Kappa Honor Society, member of	Bellevue, WA
TECHNIAL PROJECTS & SOFTWARE TOOLS	
OpenAl Chatbot, Generative Al Integration: Developed a real-time web chat application,	Generative AI
integrating OpenAl's GPT-4 model, deployed to sub-domain on Netlify.	Serverless function
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.	Multi-threading
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
WiscShop, Voice User Interface: Virtual assistant agent, allows user to request navigations,	JavaScript
purchasing products by asking virtual assistant agent.	Dialogflow
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
Course Guide System, User Interface: React app, online course selection system,	JavaScript
implemented rating and course recommendation system based on user interests.	React
Jira Bug Auto-Reporter, Intel xVT Team: Web crawler, automatically report suspected bugs	Python
from daily regression and deliver to code develop teams.	Selenium
Regression Sum-Reporter, Intel xVT Team: Compile the validation analysis reports from each	Python
station into a final report on the mirror servers. Detect file dependencies and combine them by	BeautifulSoup
configuring CSV, XML, and file structures.	
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
Unix Shell - Wish, Operating Systems: Created a command line interpreter, having	С
functions to read executables in built-in commands, read parallel commands by &, redirection > .	
Wardrobe, Software Engineering: Web application helps user with outfit decision by	JavaScript / React
uploading physical clothing pictures into firebase virtual wardrobe, created an Al background	git
removal feature with remove.bg API by modified Google cloud functions.	backend API / GCP
Buffer Manager, Database Management Systems: Structured top of pages from I/O Layer by	C++
B+ tree structure, utilized indices stored data in file on disk, creating a disk image of the index file.	
Dynamic Memory Allocation, Machine Organization and Programming: Imported system calls	С
sbrk, malloc, free, to dynamically manage heap memory using next-fit placement policy.	System Call
<b>3D Graphics Town</b> , Computer Graphics: Interactive graphic website using THREE.js for creating	JavaScript
3D animations and applying <i>Bezier</i> curve to structure object's motion, manipulated camera views.	WebGL
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.	
Query Tuning, Database Management Systems: Query optimization improved performance	SQL
more than 98% by implementing index, instance, pre-defined table, sub-query.	SQL Server
Meal Plan Analysis, Data Structure: Meal database system with GUI, food choice analysis.	Java / JavaFX

### LEADERSHIP & EXTRACURRICULAR ACTIVITY

### **BRIDGE International Peer Mentor Program**

Peer Mentor

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

Food & Beverage

• Became a barista of coffee shop and served toasted sandwiches.