

# Yi-Yang Lin

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

## 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

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

---

### Google LLC

Taipei, Taiwan

#### ENGINEERING INTERN

Full-Time Jun. 2023 – Aug. 2023

- *Pixel* Modem L1, RF Software Engineering
- Created *python* scripts to facilitate *Pixel* Mobile phone testing for connecting RF equipment.

### Intel Corporation

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

## TECHNIAL PROJECTS & SOFTWARE TOOLS

2022	<b>Social Media Video Downloader</b> , <i>Advanced Programming Techniques</i> : Designed to parallel download videos from video platforms such as YouTube, Instagram, and TikTok, based on given keywords and links.	<i>Python</i> <i>Shell Script</i> <i>JavaScript / Web</i>
2022	<b>FitnessTrack</b> , <i>Android Development</i> : Allows users to record the food items they eat at each meal and assign a health rating to each meal.	<i>Kotlin</i> <i>Java</i>
2022	<b>WiscShop</b> , <i>Voice User Interface</i> : Virtual assistant agent, allows user to request navigations, purchasing products by asking virtual assistant agent.	<i>JavaScript</i> <i>Dialogflow</i>
2022	<b>Fitness Tracker</b> , <i>Mobile User Interface</i> : iOS/Android app, designed a fitness tracking mobile app in react native, expo, and RESTful APIs, storing health information on API server.	<i>JavaScript</i> <i>React Native</i>
2022	<b>Course Guide System</b> , <i>User Interface</i> : React app, online course selection system, implemented rating and course recommendation system based on user interests.	<i>JavaScript</i> <i>React</i>
2021	<b>Jira Bug Auto-Reporter</b> , <i>Intel xVT Team</i> : Web crawler, automatically report suspected bugs from daily regression and deliver to code develop teams.	<i>Python</i> <i>Selenium</i>
2021	<b>Regression Sum-Reporter</b> , <i>Intel xVT Team</i> : Sum up each station analysis to a final report, detected file dependencies and combined by configuring CSV, XML, file structure.	<i>Python</i> <i>BeautifulSoup</i>
2021	<b>Server Report Sync History Batch scripts</b> , <i>Intel xVT Team</i> : Maintaining WiFi driver analysis validation report history in mirror servers.	<i>Batch</i>
2021	<b>BIOS UEFI Testing OS Image Doc.</b> , <i>Intel WCS</i> : Wrote a doc for Testing environment setup, downloading default testing OS Windows from Intel's servers around the earth.	<i>Technical</i> <i>Documentation</i>
2021	<b>Unix Shell - Wish</b> , <i>Operating Systems</i> : Created a command line interpreter, having functions to read executables in built-in commands, read parallel commands by &, redirection > .	<i>C</i>
2020	<b>Wardrobe</b> , <i>Software Engineering</i> : 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.	<i>JavaScript / React</i> <i>git</i> <i>backend API / GCP</i>
2019	<b>Buffer Manager</b> , <i>Database Management Systems</i> : 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.	<i>C++</i>
2019	<b>Dynamic Memory Allocation</b> , <i>Machine Organization and Programming</i> : Imported system calls sbrk, malloc, free, to dynamically manage heap memory using next-fit placement policy.	<i>C</i> <i>System Call</i>
2019	<b>3D Graphics Town</b> , <i>Computer Graphics</i> : Interactive graphic website using THREE.js for creating 3D animations and applying <i>Bezier</i> curve to structure object's motion, manipulated camera views.	<i>JavaScript</i> <i>WebGL</i>
2019	<b>Maze Solver</b> , <i>Artificial Intelligence</i> : Applied BFS algorithm to search target in 2D maze, added successors to the queue that implements the frontier set for searching method.	<i>Java</i>
2019	<b>Query Tuning</b> , <i>Database Management Systems</i> : Query optimization improved performance more than 98% by implementing index, instance, pre-defined table, sub-query.	<i>SQL</i> <i>SQL Server</i>
2018	<b>Meal Plan Analysis</b> , <i>Data Structure</i> : Meal database system with GUI, food choice analysis.	<i>Java / JavaFX</i>

## 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.