

# Yi-Yang Lin

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

## EDUCATION

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### 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

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### Google LLC

Taipei, Taiwan

#### HARDWARE 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

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### 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

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|------|---|--------------------------------|
| 2023 | <b>Sigma Xi, Scientific Research Honor Society</b> , member of                                    | <a href="#">Boston, MA</a>     |
| 2021 | <b>Talk, Intel WIFI xVT Regression Team Conference</b>  | <a href="#">Taipei, Taiwan</a> |
| 2020 | <b>Top 10</b> voted proposal, <i>UW CS</i> . Against 150+ software engineering project proposals. | <a href="#">Madison, WI</a>    |
| 2018 | <b>Phi Theta Kappa Honor Society</b> , member of  | <a href="#">Bellevue, WA</a>   |

## 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.  | <a href="#">Python</a><br><a href="#">Shell Script</a><br><a href="#">JavaScript / Web</a>     |
| 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.   | <a href="#">Kotlin</a><br><a href="#">Java</a>   |
| 2022 | <b>WiscShop</b> , <i>Voice User Interface</i> : Virtual assistant agent, allows user to request navigations, purchasing products by asking virtual assistant agent.   | <a href="#">JavaScript</a><br><a href="#">Dialogflow</a>                                       |
| 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.  | <a href="#">JavaScript</a><br><a href="#">React Native</a>                                     |
| 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.  | <a href="#">JavaScript</a><br><a href="#">React</a>  |
| 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.   | <a href="#">Python</a><br><a href="#">Selenium</a>   |
| 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.   | <a href="#">Python</a><br><a href="#">BeautifulSoup</a>  |
| 2021 | <b>Server Report Sync History Batch scripts</b> , <i>Intel xVT Team</i> : Maintaining WiFi driver analysis validation report history in mirror servers.   | <a href="#">Batch</a>  |
| 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.  | <a href="#">Technical Documentation</a>  |
| 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 > .   | <a href="#">C</a>  |
| 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. | <a href="#">JavaScript / React</a><br><a href="#">git</a><br><a href="#">backend API / GCP</a> |
| 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.  | <a href="#">C++</a>  |
| 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.   | <a href="#">C</a><br><a href="#">System Call</a>   |
| 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.   | <a href="#">JavaScript</a><br><a href="#">WebGL</a>  |
| 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.   | <a href="#">Java</a>   |
| 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.   | <a href="#">SQL</a><br><a href="#">SQL Server</a>  |
| 2018 | <b>Meal Plan Analysis</b> , <i>Data Structure</i> : Meal database system with GUI, food choice analysis.  | <a href="#">Java / JavaFX</a>  |

## 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

[WI, USA](#)

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