

Yi-Yang Lin

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WORK & RESEARCH EXPERIENCE

Chowbus – Restaurant Software System

NY, USA

Technical Support Associate

Nov. 2024 – Apr. 2025

- Installed, configured, and supported SaaS-based Point-of-Sale (POS) systems, handling networking, hardware setup, and application-level integrations while providing technical training and post-sales support to optimize restaurant operations.
- Conducted comprehensive B2B customer training including dine-in, takeout, call-in, online, customization and dish preferences, discounts, order notes, order management, payment processes, loyalty programs, menu and pricing management features.

Google LLC

Taipei, Taiwan

Engineering Intern

Jun. 2023 – Aug. 2023

- Developed an efficient script that integrates Python and C++ to facilitate the connection of RF signaling systems with SQL-based key generation processes, enhancing the retrieval of datasheet information.

Intel Corporation

Taipei, Taiwan

RF Software Engineer

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.

Education

Boston University

Master of Science – Computer Science

2022 – 2024

University of Wisconsin–Madison

Bachelor of Science – Computer Science

2018 – 2022

SKILLS

Programming Languages

Assembly, C / C++, Java, JavaScript, MATLAB, 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

TECHNIAL PROJECTS & SOFTWARE TOOLS

OpenAI Chatbot , <i>Generative AI Integration</i> : Developed a real-time chat app, integrating GPT-4 model with serverless functions on AWS Amplify, Lambda, API Gateway, route 53.	<i>Generative AI</i> <i>AWS</i>
Electronic Health Record System , <i>Server-Side Development</i> : Developed healthcare system app for physicians, staff, and patients, performing CRUD operations for calendar and messaging.	<i>MongoDB</i> <i>Express</i>
Social Media Video Downloader , <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>Multi-threading</i>
FitnessTrack , <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>
WiscShop , <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>
Fitness Tracker , <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>
Course Guide System , <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>
Jira Bug Auto-Reporter , <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>
Regression Sum-Reporter , <i>Intel xVT Team</i> : Compile the validation analysis reports from each station into a final report on the mirror servers. Detect file dependencies and combine them by configuring CSV, XML, and file structures.	<i>Python</i> <i>BeautifulSoup</i>
BIOS UEFI Testing OS Image Doc. , <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>
Unix Shell - Wish , <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>
Wardrobe , <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>
Buffer Manager , <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>
Dynamic Memory Allocation , <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>
3D Graphics Town , <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>
Maze Solver , <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>
Query Tuning , <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>
Meal Plan Analysis , <i>Data Structure</i> : Meal database system with GUI, food choice analysis.	<i>Java / JavaFX</i>

HONORS & AWARDS

2023	Talk, 5G Registration Procedure , <i>Google Pixel Mobile Wireless</i>	<i>Taipei, Taiwan</i>
2023	Sigma Xi, Scientific Research Honor Society , member of	<i>Boston, MA</i>
2021	Talk, Intel WIFI xVT Regression	<i>Taipei, Taiwan</i>
2020	Top 10 voted proposal, <i>UW CS</i> . Against 150+ software engineering project proposals.	<i>Madison, WI</i>

LEADERSHIP & EXTRACURRICULAR ACTIVITY

BRIDGE International Peer Mentor Program	<i>WI, USA</i>
Peer Mentor	
• Built the environment for cross-cultural friendships and community participants of diverse backgrounds.	