

Chiayo Lin

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EDUCATION

University of Maryland, College Park

B.S. in Computer Science

College Park, MD

Expected May 2022

- Major GPA: **3.80**/4.00 | Cumulative GPA: **3.77**/4.00
- Honors: Academic Excellence Awards (2018, 2019, 2020)

Saigon South International School

High School Diploma, IB & AP Certification

Ho Chi Minh City, Vietnam

Awarded May 2018

- Honors: Outstanding Achievement in Science (2018), Phoenix Award in Science (2017)

PROFESSIONAL EXPERIENCE

ForceTech, Inc — Contract MidManufacturing Vendor for Nike and Adidas

Software Engineering Intern

Ho Chi Minh City, Vietnam

Nov 2020 — Feb 2021

- Independently designed, implemented, and deployed a monitoring system for the production line
- Proactively worked with on-site engineers and relevant departments to learn about their needs and gather feedback
- Coordinated with an external PLC contractor about missing sensor data and follow up with their progress

Q.P.T.I. — Hardware Startup / Subsidiary of Foxconn

Software & Firmware Engineering Intern

Taipei, Taiwan

Jul 2020 — Oct 2020

- Ported a RS-232 serial-port driver (via JNI) under Android for the RK3399 SoC and implemented relevant APIs
- Worked with electrical engineers to bridge the Android board with payloads such as servos and other MCUs
- Developed an Android app that acts as a terminal for the EE team to interact with payloads via the serial port

University of Maryland Institute for Advanced Computer Studies — Research Institute

Technical Staff & System Administrator

College Park, MD

Sep 2018 — Aug 2019

- Worked on JIRA tickets on technical issues such as server problems reported by Splunk and/or faculties
- Procured, installed, and configured a cluster of GPUs as a team from boxed to racked and ready to serve
- Coordinated with PIs and/or faculties about their computational needs and allocated them accordingly

LANGUAGES & SKILLS

- | | | |
|---------------------------------------|--------------------------------------|------------------------------|
| • [Fluent] English/Taiwanese/Mandarin | • [Proficient] Java | • Containerization (Docker) |
| • [Fluent] C | • [Proficient] OCaml | • CI/CD Deployment |
| • [Fluent] Python | • [Proficient] JavaScript/TypeScript | • Web & POSIX Application |
| • [Fluent] Shell Scripting | • DS: SQL, Num/SciPy, Pandas, etc | • Computational Thinking |
| • [Proficient] LISP | • Linux System Administration | • Professional Communication |

SELECTED PROJECTS & COURSEWORK

cylisp — Minimalist LISP Interpreter

github.com/chiayolin/cylisp

Inspired by Sussman & Abelson's SICP: It is 'complete' and has only five primitives, as described in McCarthy's 1960 paper, with a few special forms. The interpreter (i.e. parsing and AST evaluation) is in Python and the rest is written in the LISP itself.

m3s — Production Monitoring System

Not publicly available due to NDA

A monitoring system of time-series *production metrics collected from PLCs, with integration for sending* alerts. Services run on Docker, written in Python and POSIX shell, using Postgres with TSDB. Frontend is a customized fork based on Grafana.

Selected Coursework:

Discrete Structures, Data Structures, Organization of Programming Languages, Algorithms, Data Structures, Intro to Data Science, Object-Oriented Programming, Linear Algebra, Multivariable Calculus, Structure & Interpretation of Computer Programs [self-studied].