

Lin Jin

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Education

Cornell University, College of Arts & Sciences

Bachelor of Arts in Computer Science and Math

GPA: 3.77

Ithaca, NY

Expected May 2025

Related Courses: Intro to Analysis of Algorithms, Object-Oriented Programming & Data Structures (Java), Data Structures and Functional Programming (OCaml), Computer System Organization and Programming, Intro to Backend

Professional Experience

FlexCompute, Belmont, Boston, MA, *Software Engineering Intern*

Jun 2022 - Aug 2023

- Acted as a bridge between FlexCompute and Flow360 clients seeking data simulation projects by implementing the file upload, logging, exception & error handling, and version control functionalities of the Flow360 Python Client (Jun-Aug 2023)
- Enhanced user experience in Flow360 Admin Portal through various improvements on Frontend and Backend, including enabling pagination with AWS OpenSearch integration (Jun-Aug 2023)
- Implemented load testing for Tidy3d API endpoints using Jmeter and compiled response time, throughput, and performance data as well as identified bottlenecks under various user loads (Dec-Jan 2023)
- Developed a Python disk-cleaner project that was able to delete 100,000 unused files with a total of 100G memory within 61 seconds during testing which was deployed on the company's servers (Jun-Aug 2022)
- Deployed Apache Skywalking, an open-source observability platform on AWS with EC2 and OpenSearch on a VPC network to allow centralized monitoring of the company's software on the cloud (Jun-Aug 2022)

Campus Involvement

Cornell Nexus, Cornell University, *Fullteam Lead, Software Member*

Sep 2022 - Present

(<https://github.com/cornellnexus/src>)

- Design and implement code to allow the robot to autonomously navigate itself through a given area using Python
- Build an autonomous robot to filter out microplastics from beaches as a part of a team of 25+ people
- Lead team meetings, recruit new members, facilitate inter-subteam communication, and grade team members

Cornell Alpha CubeSat, Cornell University, *Software Member, Web Developer Member*

Sep 2022 - May 2023

(<https://github.com/Alpha-CubeSat>)

- Built an interactive website with holograms for a showcase at the Intrepid Museum Art Exhibit (Nodejs, Javascript, HTML, CSS)
- Implemented Fault Suppression and UnitTest Monitors (C++)

Introduction to Computing With Python Consultant

Aug 2022 - Dec 2022

- Acted as a facilitator during office hours to assist students in debugging code and understanding course concepts

WebMaster for Cornell Kali Club

Aug 2022 - Dec 2022

- Participated in weekly training and seminars featuring grandmasters from different schools of Filipino Martial Arts
- Created and managed the website for the Kali Club

Extracurriculars and Projects

Poem Generator (OCaml)

Dec 2022

(<https://github.coecis.cornell.edu/lj233/3110FinalProject>)

- Coded a poem generator with 2000+ lines of code that used theme and rhyme words from the user to generate a random poem with 8 poem types for the user to choose from
- Collaborated in a team of 4 with semester-long weekly sprints

HackChallenge ShareVerse App, *Backend Developer*

Dec 2022

(<https://github.com/sazhang02/FA22-HackChallenge>)

- Developed the backend with 17 unique endpoints and a many-to-many database structure for the lending and borrowing app ShareVerse during the two-week HackChallenge
- Coordinated 2 IOS frontend developers, 1 designer, and one additional backend developer

JoCalf Interpreter (OCaml)

Sep 2022

- Constructed an interpreter for JoCalf, a language based on OCaml and Javascript. The project implements binary and unary operators, constants, variable binding, mutability, and functions

Technical Skills

Programming Languages: Python, Java, OCaml, C++, Javascript, HTML, CSS, SQL

Framework: Angular, Flask, Spring Boot

Platform: AWS (Cloud Practitioner Certified), Docker, GitHub, Sonarqube, Pytest

Other: Postman, Jupyter Notebook, YAML, Kubernetes, Apache Skywalking, tox, coverage, Jmeter

Computing Concepts: Agile Development, Object Oriented Programming, Functional Programming, Test Driven Development

Languages: English (Fluent) and Mandarin (Native)