Jingcheng Liang

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Professional Summary

Computer Science Specialist & Statistics Major (GPA 4.0). Experience in software development, data analysis, and research. Skilled at clean design, robust testing, and reproducible pipelines. Seeking a CS internship to apply programming and analytical expertise.

Education

University of Toronto Mississauga BSc Computer Science Major & Statistics Major — Sept 2024 – Apr 2028 (Expected)

- GPA: 4.0/4.0 (Unofficial transcript available)
- Relevant Coursework: CSC207 (Software Design), CSC236 (Data Structures & Analysis), STA256H5 (Probability & Statistics I), MAT223 (Linear Algebra)
- Dean's List Scholar, Winter 2025

Technical Skills

Languages: Python, C, C++, Java, R, SQL, JavaScript, HTML, LaTeX

Tools & Libraries: Git, Pandas, NumPy, SciPy, Matplotlib, BeautifulSoup, Flask, Tidyverse, Hypothesis, PyTest, Pygame

Experience

Academic Department Member, UTM CSSA — Mississauga, ON — Mar 2025 – Present

- Provide peer support in UTMCSSA: answer student questions and help incoming students with resources and campus life.

Poster Winner, "Students on the Beamline" Canadian Light Source Project — Virtual Classroom page — 2023

- Collected and analyzed biosorption data for Cu(II), Zn(II), Ni(II) uptake by *Ganoderma lucidum* mycelia
- Interpreted XRF beamline data and contributed to experimental design discussions
- Presented findings; awarded **Staff Pick & Public Vote Poster Winner 2023**

Projects

LexiGO v1.0 — github.com/Jackymn25/LexiGOv1.0 — Summer 2025

- Developed a Java Swing application following Clean Architecture principles for spaced-repetition language learning
- Implemented Ranking and Word Detail use cases with Dependency Injection and Strategy pattern, achieving 100% unit test coverage
- Managed JSON-based persistence and integrated RESTful APIs for vocabulary management

AnimeAnalyst — github.com/Godoftitan/AnimeAnalyst — Summer 2025

- Built a Python package to fetch, filter, and analyze anime metadata from MyAnimeList (Jikan v4), with optional AniList enrichment
- Applied Bayesian shrinkage scoring to stabilize noisy ratings, exposing tunable prior strength (α) for flexible ranking
- Designed an interactive CLI with genre/year/type filters, CSV caching system, and reproducible matplotlib visualizations