

# DANIEL LIAN

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Highly motivated Computer Science senior at University of Michigan (UM) seeking software engineering internship for summer 2026. Past experience in scalable systems, machine learning models, and analytical problem solving. Planning to pursue Master's program through UM's SUGS program. Eager to apply skills in real-world setting before graduate studies.

## EDUCATION

### University of Michigan

BS - Computer Science | GPA: 3.7/4.0

Ann Arbor, MI  
August 2023 - May 2026

- **Coursework:** Data Structures and Algorithms, Intro Data Science, Intro to Artificial Intelligence, Computer Vision, Conversational Artificial Intelligence, Discrete Math, Programming & Data Structures, Intro to Computer Security, Intro to Operating Systems, Intro to Computer Organization, Foundations of Computer Science, Intro to Computational Linguistics, Intro to Cryptography, Ethics and AI, Software Design & Data Structures, Computer Science and Problem Solving

## SKILLS & CERTIFICATIONS

### AI/ML & Data Science

Python, R, Jupyter Notebook, Pytorch, TensorFlow, Pandas, NumPy, scikit-learn

### Languages

Java, C/C++, HTML, CSS, JavaScript, SQL, MATLAB, LaTeX, Julia, x86 ASM

### Tools & Platforms

VSCode, Git, MariaDB/MySQL, Linux

### Certifications

Amazon Certified Solutions Architect Associate

## PROJECTS

### Cities Chain Discord Bot

July 2023 - Present

- Designed and implemented a scalable Discord game supporting thousands of players across 700+ Discord servers using efficient SQL backend data management in MariaDB for seamless gameplay.
- Applied Agile software maintenance principles and used player feedback to ensure robust gameplay experience.

### Election Prediction Algorithm

Aug 2022 - May 2023

- Implemented Python Tensorflow model in Jupyter Notebook to predict 85% of 2022 United States congressional winners using weighted average of 538 polls, demonstrating robust predictive analytics capabilities.
- Presented research and findings to audience of 40 at tjSTAR technology research symposium.

## EXPERIENCE

### Instructor

Fairfax Collegiate, LLC

Summer 2023-2025  
McLean, VA

- Instructed various STEM classes to students over 15 weeks, teaching student of various ages robotics, basic programming skills, advanced math concepts including middle school math and algebra, fundamentals of game design.
- Honed communication skills by mentoring junior staff, created friendlier team-based learning environment to adapt to students' diverse learning styles.

### Founder, Lead Developer

Stealth AI Startup

Summer 2025  
McLean, VA

- Created Agentic AI utilizing GMail's API using a Python Naive Bayes classifier to categorize 4000 emails per minute, leading to a drastic 10000% speedup in productivity through automatic mail organization and spam detection.
- Deployed online Flask webapp for model availability and login through Google.

## LEADERSHIP & ACTIVITIES

**Extracurricular Activities:** MHacks 2025, Michigan Quizbowl, WolvSec Cybersecurity, 3D Printing Club, Asian Inter-varsity

### University of Pennsylvania Wharton Data Science Academy

Wharton Global Youth Program

Summer 2022  
Philadelphia, PA

- Trained neural networks on large text dataset to determine star ratings of Yelp reviews in R, gaining practical experience in Natural Language Processing (NLP) and model interpretation.
- Built and analyzed datasets with R to assess company market caps and stock performance relative to the S&P 500.
- Collaborated with a team to develop a predictive model for real-world stock price changes from insider trading.