

# Calvin Chan

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## EDUCATION

### University of Michigan

M.S. in Computer Science – GPA: 4.0

B.S. in Computer Science – GPA: 3.71

Ann Arbor, MI

January 2026

December 2022

- Coursework: Operating Systems, Compilers, Information Retrieval, Web Systems, Probability and Statistics, Linear Algebra, Computer Organization, Algorithm Design and Analysis, Data Structures and Algorithms

## EXPERIENCE

### Microsoft

June 2024 - September 2024

#### Software Engineer Intern

- Built a **RAG**-based chatbot with **Azure AI Search** to answer token-related queries such as Microsoft Office subscription, cutting response times by 23% and boosting user satisfaction by 18%
- Developed a **Python** plugin to embed and retrieve relevant context from token services documentation, enhancing response accuracy by 14% and improving overall chatbot performance
- Created a real-time dashboard in **Python** using **Streamlit** to visualize metrics derived from user feedback, enabling data-driven improvements and increasing response quality

### Apple

April 2024 - June 2024

#### Software Engineer Intern

- Developed a sophisticated UI using **Objective-C** to provide seamless audio playback control across multiple platforms, enhancing listening experience for 100M+ users
- Revamped log analysis tool by integrating new event types and refining interface, which reduced issue diagnosis time from 20 to 8 minutes and boosted engineer productivity by 30%
- Created an automated test suite using **XCTest** to simulate user behaviors, catching critical issues early and reducing regression bugs by 18%

### Snowflake

September 2023 – December 2023

#### Software Engineer Intern

- Developed backend automation frameworks in **Go** to streamline development workflows, improving productivity for 30+ engineers and reducing workflow runtime by 26%
- Integrated CLI tools into in-house workflow management platform to automate FoundationDB version control, minimizing manual processes and cutting version update time by more than 40%

### SoFi

June 2023 – August 2023

#### Software Engineer Intern

- Spearheaded adoption of contract testing with **Pact** and **Python** to reduce reliance on end-to-end testing and detect bugs early in development, cutting testing time by 37% and improving code quality
- Optimized chatbot performance using **LangChain** and **LLMs** to deliver more accurate responses for FAQs

### NVIDIA

May 2022 – August 2022

#### Software Engineer Intern

- Trained NLP models with **spaCy**, **NumPy**, and **pandas** to analyze and categorize incoming inquiries by issue type, expediting categorization process by 52% and accelerating customer support response times
- Built a data pipeline with **Airflow** and **PySpark** to clean and process raw data for training language models

## PROJECTS

**OptionX** - Option pricing and Greeks visualization app using Black-Scholes model – **Python, NumPy, Streamlit**

**RogueQuest** - 2D roguelike platformer featuring smart enemy AI and challenging level designs – **C++, SDL2**

**Fake News Classifier** - LSTM-based deep learning model for fake news detection – **Python, PyTorch**

**Network File Server** - Multithreaded server for efficient hierarchical file system management – **C++**

## SKILLS

**Languages:** C/C++, Go, JavaScript, Objective-C, Python, SQL

**Technologies:** Django, Flask, Git, Node.js, NumPy, Pandas, PyTorch, React, scikit-learn, spaCy, Tensorflow

**Concepts:** Backend Development, Database Systems, Full-stack Development, Large Language Models, Data Science, Machine Learning, Natural Language Processing, Parallel Programming, Systems Programming