

Thomas Chin

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science | Concentration: Intelligence and Internetworks

Aug. 2022 – Dec. 2025

- GPA: 3.93 - Dean's List
- Coursework: Data Structures, Algorithms, Computer Systems and Networks, Machine Learning, Intro to AI

EXPERIENCE

Software Engineer Intern

Jun. 2024 – Aug. 2024

JPMorgan Chase & Co.

Atlanta, GA

- Designed an automated TFE validation script using GoLang, AWS Lambda, and S3 for storage to ensure accuracy of about 1000 onboarded AWS accounts, improve inventory management, and report inconsistencies efficiently
- Integrated over 30 Open Policy Agent policies into an identity management platform to scan AWS resources that are being modified to ensure they meet minimum controls and displayed reports using a react user interface

Research Intern - Real-Time Systems Lab

Jun. 2023 – Aug. 2023

University of Houston

Houston, TX

- Developed a Deep Q-Network reinforcement learning model using Python, Tensorflow, Keras, and SUMO, leading to 12% traffic flow efficiency based on real-time data by predicting future directions
- Compiled comprehensive research report showcasing accuracy results and presented findings to faculty members

Software Engineering Intern

Jun. 2022 – Aug. 2022

Digital Glyde

Houston, TX

- Jump-started a publishing software service and contributed to 50% of the registration, login, and dashboard design writing over 3000 lines of code using JavaScript, React, Meteor, and Material-ui framework
- Introduced efficient alternatives in the product development process by conducting research with quantum computing and Amazon Braket and presenting its applications, increasing work efficiency.

PROJECTS

ReviewIQ Startup Co-founder (Microsoft Founders hub) | *Python, Azure, Docker*

Aug. 2024 - Present

- Developed and deployed on the cloud scalable web-scraping pipelines using Python and Scrapy capable of extracting over 10,000 Steam/YouTube game reviews in just a few minutes each day, delivering actionable insights
- Implemented large language models to analyze and generate actionable insights from extracted game reviews, leveraging NLP techniques to categorize sentiment, detect recurring themes, and summarize user feedback

Flight Delay Predictor - BDBI | *Javascript, React, HTML, CSS, Python*

Jan. 2023 - Apr. 2023

- Created and trained a Random Forest machine learning model using pandas, numPy, sklearn, and US Flight data sets that predicts flight delays with 91% accuracy for canceled flights and 85% for delays over 60 minutes
- Designed and built a React front-end with user input to run the model using material-ui library

Midi2Genre | *Python*

Sep. 2024 – Nov. 2024

- Developed a machine learning-based chord progression classifier using a dataset of over 135,000 songs, leveraging feature engineering techniques such as bag of words, harmonic intervals, and chord trigrams
- Implemented Random Forest, SVM, and KNN models, with KNN achieving the highest F1-score of 0.55 for Jazz and 0.46 for Pop correctly classifying over 3000 Pop and Rock songs

LEADERSHIP AND COMMUNITY INVOLVEMENT

Georgia Tech International Ambassadors | *President, VP External Affairs*

Aug. 2022 – Present

- Directed a large club, implementing workshops, mentorship programs, and large events to increase cultural awareness, push for diversity, equity, and inclusion, and provide support for over 9000 international students
- Coordinated with GT's Office of International Education to execute a bustling Night Market with 1000+ attendees

SKILLS

Awards: Exemplary Student-Athlete of the Year, Eagle Scout, Rensselaer Award Medalist, Varsity Swimming MVP

Technical: Java, Python, C, SQL, HTML, CSS, JavaScript, Go, Terraform, Rego OPA

Certifications: AWS Certified Cloud Practitioner