Ryan Chin

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EDUCATION

Massachusetts Institute of Technology   Expected Grad: 05/2027

Bachelor of Science in Computer Science • GPA: 5.0/5.0

- **Selected Coursework**: Design and Analysis of Algorithms, Intro to Machine Learning, Web Development, Intro to Deep Learning, Programming in C and Assembly, Linear Algebra, Probability Theory (Grad), Startups Seminar

EXPERIENCE

Salesforce, AI Cloud Team

Incoming Software Engineer Intern   06/2025 - 08/2025, San Francisco, CA

MIT CSAIL, Regina Barzilay Group

Undergraduate Researcher   04/2025 - Present, Cambridge, MA

- Pretrained Qwen2-VL on multimodal data for structured recognition of organometallic molecules and generated atomic coordinates from chemical diagrams using NLP
- Reduces correction time cut from 137 seconds (from scratch) to 20 seconds, sponsored by Dow Chemical

MIT CSAIL, Clinical Decision Making Group

Undergraduate Researcher   09/2024 - 05/2025, Cambridge, MA

- Deployed multiagent LLM fraud name detection system for Itaú Unibanco, cutting false negatives by 60% and scaling to millions of transactions for production
- Enhanced fraud detection using XGBoost with SMOTE and integrated user profiling for improved model precision on large-scale financial transactions

UT Austin, Control and Learning for Autonomous Robotics (CLeAR) Lab

Research Intern   06/2023 - 06/2024, Austin, TX

- Developed a trajectory solver reducing errors in collision-avoidance systems, leveraging log-barrier constraints & user-generated input trajectories
- Coded display of collision-free trajectories for non-cooperative multi-agent systems, incorporating inferred rotating hyperplane inequality constraints

PROJECTS

Notetexer.com   04/2025 - Present

- Built an AI LaTeX editor that converts audio and stylus input into structured documents, using OpenAI Whisper with custom post-processing for synchronization
- Designed and deployed a Flask-based REST API with PostgreSQL for backend data handling, and managed cloud infrastructure and file storage on AWS

Chain Reaction | 5th Place Winner in MIT WebLab 2025 Competition (out of 80 teams)   01/2025 - 02/2025

LEADERSHIP AND ACTIVITIES

Developer - HackMIT DevOps (2025 - present)

Grader for 6.1210 (Intro to Algorithms) - MIT EECS (2025 - present)

MIT NCAA Division III Varsity Fencing – Men's Foil (2024 - present)

HONORS AND AWARDS

- USA Math Olympiad (USAMO) HM Awardee (Top 3 in Texas, Top 100 in Nation); 6x AIME Qualifier; ARML Tiebreaks
- USA Computing Olympiad Gold Division
- FIRST Robotics State Champion (of 180 teams) & State Record High Score; DECA ICDC Finalist (6th Place)

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, SQL

ML & Data: PyTorch, TensorFlow, NumPy, PostgreSQL

DevOps & Infra: Docker, Kubernetes, AWS, Git, Linux

Web & Tools: Node.js, React, REST APIs, Flask, LaTeX