RÉSUMÉ — MIT COMPUTER SCIENCE APPLICANT

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EDUCATION

Mountain View High School, Mountain View, CA
Expected Graduation: June 2026
GPA: 4.0 (Unweighted) | 4.8 (Weighted)
SAT: 1580 (Math 800, Reading/Writing 780)
ACT: 36

Relevant Coursework:

- AP Computer Science A (Score: 5)
- AP Calculus BC (Score: 5)
- AP Physics C: Mechanics
- Data Structures & Algorithms (Stanford Online Dual Enrollment)
- Linear Algebra (Community College Credit)

TECHNICAL PROJECTS

AI-Powered Note Summarizer (Open Source Project)
2024–Present

- Created a web app using **Python (Flask), OpenAI API, and React** to summarize lecture notes and PDFs.
- Reached **2,000+ active users** after launch on GitHub.
- Implemented custom tokenizer and cosine similarity algorithms for improved context retention.

Autonomous Drone Pathfinding
Summer 2024, Self-Initiated Project

- Designed a drone navigation system using **A* pathfinding algorithm** and **OpenCV** for object detection.
- Tested simulation in **Gazebo** and **ROS2**, achieving 92% success rate in obstacle avoidance.

Hack the Future 2024 — Hackathon Winner
March 2024

- Built "CleanCity," a mobile app that tracks urban waste data using **Firebase** and **Google Maps API**.
- Won **1st Place** out of 150 teams.

RESEARCH EXPERIENCE

Stanford Artificial Intelligence Laboratory (High School Research Intern)
June–August 2025

- Assisted in developing machine learning models to detect misinformation using NLP techniques (BERT, LSTM).
- Co-authored a preprint paper: *"Efficient Context Modeling for Online Information Credibility"*.
- Presented results at the Bay Area AI Research Symposium (2025).

LEADERSHIP & ACTIVITIES

Computer Science Club — Founder & President (2023–Present)

- Grew membership from 8 to 60 students.
- Hosted annual high school hackathon "CodeQuest" with 120+ participants.

FIRST Robotics Team 4830 "TechTitans" — Lead Programmer (2021–Present)

- Developed autonomous routines in **Java** and integrated **vision tracking** using Limelight.
- Contributed to team's advancement to **FIRST World Championships 2024**.

Tutoring Program — Peer STEM Mentor (2022–Present)

- Tutored over 30 students in computer science, calculus, and physics.

HONORS & AWARDS

- **National Merit Finalist (2025)**
- **USA Computing Olympiad (Gold Division)**
- **MIT Inspire Semifinalist — Computer Science Category (2024)**
- **Google Code-in Finalist (2023)**
- **AP Scholar with Distinction**

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, JavaScript, TypeScript, SQL
Frameworks & Tools: TensorFlow, PyTorch, React, Flask, Node.js, Git
Other Skills: Data Science, Computer Vision, NLP, Linux, Algorithms & Data Structures

ADDITIONAL INTERESTS

- Quantum computing & computational neuroscience
- Piano (10 years, jazz and classical)
- Rock climbing and robotics hardware design

// Dummy Resume for Testing