

# Chris Ge

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## EDUCATION

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**Massachusetts Institute of Technology** | Cambridge, MA Expected Graduation: May 2027

- Candidate for B.S. in Computer Science and B.S. in Mathematics, GPA: 5.0/5.0
- Relevant Coursework: Design and Analysis of Algorithms, Introduction to Machine Learning, Introduction to Low-level Programming in C and Assembly, Probability and Random Variables, Differential Equations

**Mission San Jose High School** | Fremont, CA June 2023

- Valedictorian, GPA: 4.0 (unweighted), SAT: 1600, ACT: 36
- Awards: USAMO Bronze Medalist (2x), USAPhO Silver Medalist (2x), USACO Gold, USNCO Honors

## SKILLS

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**Technical:** C++, Python, React, Angular, Flask, Next.js, HTML, CSS, JavaScript, SQL, MATLAB, Bootstrap, TypeScript, MongoDB, Express, Java, Git, PHP, LaTeX, Excel, Autodesk Fusion 360, PyTorch

**Languages:** English (Native), Mandarin (Conversational)

## EXPERIENCE

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**InterSystems** | Software Engineering Intern May 2024 – Present

- Part of the Application Services team at the Boston office.
- Trained in developing database applications using object oriented and SQL data models, with Angular frontend
- Extending ObjectScript unit test coverage measuring tool to include Embedded Python, ensuring unit test efficacy.

**MIT Media Lab** | Undergraduate Researcher in Signal Kinetics Group December 2023 – March 2024

- Created battery-free 3D underwater localization system for real-time tracking of mobile targets.
- Implemented a particle filter to combine data from IMU sensors with hydrophone outputs for better accuracy.
- Translated simulation code from MATLAB to Python & integrated with signal transmitter in a ROS system

**Ross Mathematics Program** | Junior Counselor June – July 2022

- Attended courses by OSU professors on Dirichlet L-functions, Ergodic Ramsey Theory, and Erdos-Falconer problems.
- Guided and assisted 60 first-year campers through 30 number theory problem sets.

## PROJECTS

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**Tone-me** | Chinese Mandarin Pronunciation Assistant October – December 2023

- Analyzed tones in spoken Chinese, identifying pronunciation issues and presenting the correct pronunciation.
- Fine-tuned Wave2vec2 transformer network model for tone classification task to evaluate user's tone pronunciations.
- Built full-stack demo using Next.js, React, and Flask, deployed as web service on Render for seamless user experience.

**HOT Maps** | OpenStreetMap Tutorial Game and Assessment April 2024

- Created an online game for Humanitarian OpenStreetMaps to better attract and assess volunteer mappers.
- Developed in Javascript, using d3.js to project and visualize GeoJSON data for the user interface.

**Softblocker** | Productivity Chrome Extension July – August 2022

- Temporarily freezes specific websites based on a time limit to promote productivity.
- Developed using Javascript, HTML, and CSS to manage users' browser activity, with 100 installs by unique users.

## LEADERSHIP AND ACTIVITIES

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**MIT Undergraduate Math Association** | Social Committee Member September 2023 – May 2024

- Organized and hosted socials for 80 members, including estimathons, Pi Day celebrations, and card game tournaments.