

# Benjamin Li

- [25benjaminli@gmail.com](mailto:25benjaminli@gmail.com) • [benjaminli.net](http://benjaminli.net)
- [LinkedIn](#) • [GitHub](#) • [Medium](#) • [Google Scholar](#)

## EDUCATION

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**Cornell University, B.A. Computer Science** 2025-2029  
**Relevant Coursework (Fall 2025):** MATH 2210 (Linear Algebra), CS 2110 (OOP & Data Structures), COGST 2801 (Game Theory), STS 2810 (Science, Nature, and Knowledge)  
**SAT:** 1560/1600; **PSAT:** 1510/1520 (National Merit Finalist)  
**High School GPA:** 4.67/4.00 (top 5%)

## EXPERIENCE

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**Student Researcher** (AI, Computer Vision, Bioinformatics) 2022-Present

- Research on detecting toxin-producing cyanobacteria, segmenting brain tumors, and predicting human-infecting, viral zoonoses based on genomic sequences. Focus on few-shot learning, approaches with limited computing resources and data quality
- Joined the [Cornell Computational Imaging Lab](#) in the fall of 2025, working on uncertainty quantification for imaging tasks

**Intern, Regeneron** (on-site) Summer 2025

- Built [open-source](#) quantum optimization code for protein–ligand docking with implications for more rapid drug development
- Presented and discussed work with multiple internal Regeneron + IBM research team members under the mentorship of the Chief Data Officer of the Regeneron Genetics Center

**President of Millburn High School Computer Science Integration Initiative (CSII) Club** 2022-2025

- Developed & maintained a kiosk sign-in security app serving 1600 students, taught web dev/AI curriculum, launched a guest speaker series featuring scholars in AI & ethics, medical imaging, and robotics
- **Founding editor-in-chief for “Catalyst” CS & engineering magazine**

**Software Engineer, Jersey Cares + New Jersey Academy of Sciences** 2022-2025

- Co-lead developer for a prototype volunteer outreach app to serve Jersey Cares’ 20,000 volunteers statewide
- Built a judging program for the New Jersey Academy of Sciences (NJAS)’s research symposium, serving 200+ students and 80 judges

**Founder & Core Backend Developer, Inventurn** 2022-2024

- Designed APIs, database logic, learned to build web3, blockchain-embedded tools for nonprofits and businesses
- Developed detailed workflows and journals to keep team members on track and accountable

## HONORS

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**Regeneron Science Talent Search Top 40 Finalist** 2025

- The “oldest and most prestigious” science competition in the United States, with nearly 2,500 applicants who are evaluated based on “the originality and creativity of their scientific research, as well as their achievement and leadership”
- Awarded \$25,000 for research on building an algorithm to detect brain tumors with low-quality MRI scans from sub-Saharan Africa

**NJ Representative, American Junior Academy of Science (AJAS)** 2025

- Research: “FS-MSA: A Few-Shot, Self-Prompting 3D Medical Image Segmentation Algorithm”
- Presented at the AJAS National Annual Conference after placing 1<sup>st</sup> in Math and Computer Science at the NJAS regional fair

**NJ Representative, National Junior Science and Humanities Symposium (JSHS), U.S. Department of Defense** 2023

- Research: “A Novel Stacked Ensemble Machine Learning (SEML) Model for Predicting Viral Zoonoses”
- Selected after placing 2<sup>nd</sup> in the poster presentation across all categories at the regional JSHS fair

**IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference @ Columbia University** 2023

- Research: “Identification of Cyanobacteria for Harmful Algal Blooms Research Using the YOLO Framework”
- Best Paper Award, Best Presenter Award: Artificial Intelligence/Machine Learning

**New York Times STEM Writing Contest** 2023

- Honorable Mention (top 1% among over 3000 worldwide submissions) for article “Black Box Algorithms: Exploring One of the Most Misunderstood Technologies”

## **Terra North Jersey Science Fair (TNJSF, ISEF-affiliated)**

2023-2024

- 2023: 2<sup>nd</sup> place Bioinformatics, Association for Computing Machinery Award
- 2024: 2<sup>nd</sup> place Computational Neuroscience, Karen Kranz Independent Researcher Award

## **Naval Horizons STEM Essay Contest, U.S. Navy**

2022

- Highest Honors winner for essay on the ethics and future of artificial intelligence in the military

## **Presidential Volunteer Service Award (Gold)**

2022

## **American Computer Science League (ACSL) Intermediate Division Finalist**

2022

## **VEX VRC Robotics World Championship Qualifier**

2022

## **CONFERENCES/JOURNALS**

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**Li, B.,** Ding, K., Dera, D. (2025). MD-SA2: optimizing Segment Anything 2 for multimodal, depth-aware brain tumor segmentation in sub-Saharan populations. J. Med. Imag. 12(2). <https://doi.org/10.1117/1.JMI.12.2.024007>

**Li, B.,** Serrano, K., Mazzaro, M., Wu, M., Wang, W., & Zhu, M. (2023). Identification of Cyanobacteria for Harmful Algal Blooms Research Using the YOLO Framework. IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON). <https://doi.org/10.1109/uemcon59035.2023.10316078>

**Li, B.** (2023). A Novel Stacked Ensemble Machine Learning Model for Predicting Viral Zoonoses. (Poster accepted, not presented due to insufficient funds) Association for Computing Machinery (ACM) 2023 Annual Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB).

## **HOBBIES**

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**I enjoy writing articles on Medium.com (<https://medium.com/@25benjaminli>).** Topics include computer vision guides, tips on approaching medical image segmentation, idea generation, and AI ethics.

**I also like running (high school varsity track & field athlete), hiking, rock climbing, and learning geography!**

- Ranked #80 in the USA in the competitive GeoGuessr game (May 2025), no-move mode - 65 million registered players worldwide

## **SKILLS**

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Python • Java • JavaScript/Typescript • C/C++ • Data analysis/visualization (Pandas, NumPy, Matplotlib, Plotly) • Machine/deep learning (PyTorch, scikit-learn) • Imaging and Computer Vision (OpenCV, YOLO, MONAI) • Web/App Dev (React/Next.js, Flutter, Flask, Firebase)