

# Andrew Bacigalupi

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## Education

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### Tufts University

*Medford, MA*

- B.S. Computer Science (School of Engineering), May 2028
- Pursuing Minors in Philosophy and Mathematics
- Dean's List all semesters

### Highland Park Senior High School

*St. Paul, MN*

- Full International Baccalaureate Diploma, May 2024
- 4.86 GPA, Summa Cum Laude, High Honors in Mathematics and French

## Experience

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### Teaching Assistant: Tufts Computer Science Department (CS10: Intro Python)

*Jan 2025 – Present*

- Provide constructive feedback on weekly student homework, labs, and projects in a timely manner.
- Grade coding homework assignments weekly and exams when applicable.
- Lead weekly office hour sessions for students, fostering a collaborative learning environment and enhancing problem-solving skills.

### Volunteer Software Developer: Tufts JumboCode

*Jan 2025 – Present*

- Addressed data and information challenges regarding donations in collaboration with the Tufts University Office of University Counsel.
- Developed a web app using React and back-end database using Python and PostgreSQL

### STEM Instructor: Lavner Education

*Jun 2025 – Aug 2025*

- Led classrooms of kids ages 6-14 on a variety of topics, including youth robotics, computer science, chess, computer skills.
- Collaborated with fellow counselors and management to deliver fun, engaging, safe camp experiences.

### Actuarial Analyst Intern: Securian Financial

*Mar 2023 – May 2023*

- Discussed improvements in investment models and numerical data analysis with other analysts
- Prepared audits by scheduling check-ins; revised quarterly reports

## Skills

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- Python, Java, C/C++, SQL, MediaPipe, Statistics, React/Next.js, HTML/CSS, Assembly

## Projects

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### Iterly: Founder, Engineer/Writer

- Entry-level learn-to-code site that emphasizes problem solving on large scale input data for hands-on and meaningful practice. Features educational articles and code/puzzle contributions.
- Built with Next.js/TypeScript/Tailwind CSS/, Neon/Drizzle for DB, and Github OAuth.

### Golf Swing Analysis Application

- Combined Google's MediaPipe library with statistical analysis to quantify and analyze golf swings.
- Integrated the analysis with MySQL database to save results, accessible with graphical user interface.

## Interests

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- Machine Learning, Computational Science (Bio/Astro/Ecology), Medical Software/Tech, Economics, Space/Aliens, Basketball + Tennis, Running + Weightlifting, Piano + Singing

