

Andrew Bacigalupi

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Education

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

Teaching Assistant: Tufts Computer Science Department

Jan 2025 – Present

- Provide constructive feedback on weekly student homework, labs, and projects in a timely manner for CS10 (introductory Python).
- 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

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

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

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

Projects

LearnToScore

- My version of an entry-level coding 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

- Computational Biology/Astronomy, Machine Learning, Medical Research/Tech, Economics, Space