

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
- 4.0 GPA, 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.

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

Youth Golf Instructor: First Tee Minnesota

Apr 2024 – Aug 2024

- Coached youth athletes in individualized golf and interpersonal development programs
- Partnered with non-profits to offer and increase access to golf for underserved communities.
- Communicated and collaborated with parents and directors to organize logistics.

Skills

- Python, Java, C++, SQL, MediaPipe, Statistical Analysis, Communication, Collaboration, Leadership

Projects

Software Engineering: Golf Swing Analyzer 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.

International Baccalaureate Extended Essay: *Opportunistic Downturn: Hitler's Ascension from Recession*

- Researched and wrote a 20-page exploration of the historical and statistical economic patterns contributing to totalitarianism, focusing mainly on pre-Nazi Germany and the Weimar crisis.

Interests

- Computation in the Natural/Social Sciences, Machine Learning/Big Data Science, Economics, Space