

Jackson Teitelbaum

South Orange, NJ | jteitelbaum417@gmail.com | jacksonteitelbaum.com

EDUCATION

Columbia High School

GPA: 4.64, Weighted

Maplewood, NJ

Sep 2022 - June 2026

Relevant Coursework: Calculus 3 & Linear Alg, AP Physics C, AP Computer Science A

Honors and Awards: National Honor Society, College Board National Recognition Program Award, AP Scholar with Distinction

CLUBS, SPORTS & SUMMER PROGRAMS

Columbia High School Fencing

Maplewood, NJ

Captain

Nov 2025 - Feb 2026

Starter

Nov 2024 - Feb 2026

Fencer

Nov 2022 - Feb 2026

- Fencing, drills, cardio, stretches, and intense workouts 6 days a week
- Meets and tournaments every 1-2 weeks
- Off-season training 2-3 times a week
- Contributed to team performance and strategy
- Competed in nearly all team matches
- Selected by coaches to be a starter in junior and senior years, and selected to be a captain in senior year
- Lead drills, coach teammates, teach technique, and help set up for tournaments and meets

Engineering Summer Academy at Penn (ESAP): Artificial Intelligence

Philadelphia, PA

Summer Student

July 2024 - July 2024

- Selected for a career-oriented summer program focused on artificial intelligence and engineering applications
- Gained foundational knowledge in AI concepts, including model design and implementation
- Developed and trained custom AI models to solve real-world problems
- Created a public website offering free AI-powered job training simulations for roles such as babysitter and cashier
- Collaborated with peers to apply machine learning tools in innovative, socially impactful projects

Inspirit AI Scholars

Online

Summer Student

July 2025 - July 2025

- Completed a rigorous, mentor-led program in AI and computer science
- Participated in small-group, socially impactful AI projects and attended lectures taught by graduate students and alumni from Stanford, MIT, and other top institutions
- Learned foundational AI and machine learning concepts, including neural networks, computer vision, and object detection, for real-world applications like autonomous vehicles
- Co-developed an AI-based object detection system that processes a user-inputted video and outputs the same video with boxes and labels identifying detected objects.
- Presented project outcomes and analyses in a final showcase, with feedback from mentors and peers

Tufts Engineering Design Lab

Medford, MA

Summer Student

July 2023 - July 2023

- Learned core engineering skills, including CAD design, Python programming, and Raspberry Pi integration
- Gained hands-on experience with soldering, 3D printing, and laser cutting for prototyping and fabrication
- Designed and built a functional robotic arm using motors and custom 3D-printed and laser-cut parts to deal cards for games such as poker automatically
- Developed a robot equipped with computer vision for autonomous navigation and object detection

Architecture and Engineering Club at Columbia High School

Maplewood, NJ

Assistant

Sep 2024 - June 2026

Member

Sep 2023 - June 2026

- Designed and built structures such as bridges and buildings using popsicle sticks and recycled materials
- Developed foundational architectural skills, including design, project management, communication, problem-solving, and teamwork through mentored assignments.
- Purchased materials for the club
- Assisted in teaching core concepts and helped peers understand building techniques through ongoing mentoring

WORK EXPERIENCE

Genius Gems (Kids STEM learning and play center)

Millburn, NJ

Teacher/Assistant

Aug 2023 - Present

- Teach or assist 2 classes weekly in STEM subjects such as robotics, coding, and chemistry
- Serve customers food and drink
- Manage inventory and restock up to 30 different snacks, drinks, and toys every week
- Handle customer inquiries and troubleshoot possible issues over the phone
- Manage parties, coordinate communication with parents, and manage the arrival and departure of up to 35 children at one time
- Organize and clean storage areas and main spaces, ensuring all electronics are charged and maintained
- Create an engaging environment for the children

JT Pressure Washing

South Orange & Maplewood, NJ

Founder

July 2023 - Present

- Built a residential pressure washing service through local outreach in and around my hometown
- Offered free services to secure initial clients and build a strong reputation in the community
- Added new customers through a marketing campaign that included a Facebook page and the distribution of flyers to homeowners
- Expanded the business by recruiting friends with access to pressure washing equipment, enabling the team to take on more customers

VOLUNTEER WORK

Print with Purpose

South Orange, NJ

Founder

Dec 2024 - Present

- Established and led "Print with Purpose," a student-run organization dedicated to designing and 3D printing custom educational models for the visually impaired; self-funded entire operation
- Partnered with See3D, a global 3D printing management and distribution organization, ensuring that the models reach blind schools, facilities, and events across the country
- Manage the entire production process, including the CAD design of all 3D files, operation and maintenance of the printers, and the packaging and shipping of the product to users.

Achieve Foundation

South Orange, NJ

Academic Tutor

Oct 2022 - Present

- Tutor 20 middle school students across all subjects to help build understanding of important concepts and improve test performance
- Assist students with homework assignments
- Help students prepare for tests by teaching memorization skills and simplifying complex concepts

Jewish Family Service of MetroWest NJ

West Orange, NJ

Elder Caregiver

Dec 2024 - Present

- Provide companionship and non-medical care for an elderly couple to improve their quality of life and ensure a safe home environment
- Assist with household tasks, including grocery shopping, picking up prescriptions, and other necessary errands
- Support the independent living of my clients by troubleshooting, fixing, and teaching them how to use electronic devices, e.g., phone and TV

Temple Sharey Tefilo-Israel

South Orange, NJ

Chaperone

Dec 2024 - Present

- Chaperone children during holiday services
- Organize and play games with the children to keep them entertained
- Teach children about Jewish holidays and their history, important figures, and facts about Judaism

SKILLS AND INTERESTS

Python • Java • JavaScript • Rhino, AutoCad, TinkerCAD, Fusion 360, and other CAD software • 3D printing • Soldering • Making complex Arduino and Raspberry Pi-based projects, such as building drones • Putting together and fixing household electronics, such as computers • Fencing