

JAVIER LAVEAGA AGUIRRE

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EDUCATION

Tufts University - School of Engineering <i>Bachelor of Science in Computer Science, Minor in French</i> <ul style="list-style-type: none">Achievements: GPA: 3.89/4.00, Dean's List 2022-2024Relevant Courses: Data Structures, Calculus III, Probability, Statistics, Discrete Math, Linear Algebra, Machine Structure and Assembly Language Programming, Algorithms, Software EngineeringTufts Summer Program in Talloires, France	Medford, Massachusetts May 2026 May-July 2023
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WORK EXPERIENCE

Tufts University - Center for Engineering Education and Outreach <i>Software Developer Research Assistant</i> <ul style="list-style-type: none">Fixed bugs and added new features to a course website using Python and JavaScript, improving functionalityBuilt an interactive synthesizer using Arduino and LEGO Robotics, enabling undergraduates to effectively learn about sine waves and sound	Medford, Massachusetts Sep 2024 - Present
Tufts JumboCode <i>Software Developer</i> <ul style="list-style-type: none">Partnered with a nonprofit to improve the management of educational resources for tutors serving adult immigrants in Greater BostonDesigned and developed a streamlined library system using a Neon Database, React, and Clerk API for secure user authentication	Medford, Massachusetts Sep 2024 - Present
Tufts University - Center for Engineering Education and Outreach <i>Technology Development Intern</i> <ul style="list-style-type: none">Developed interactive, web-based interfaces for LEGO Education using PyScript, integrating Python with HTML, CSS, and JavaScript to enhance user experience and improve functionalityCreated lower-level communication protocols within a team of 15, ensuring seamless data exchange and synchronization between multiple devices on the LEGO SPIKE and Arduino Alvik platforms	Medford, Massachusetts Jun 2024 - Aug 2024
Tufts University - IDEA Lab <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Developed a machine learning model using hyperspectral imaging to classify various types of plastic	Medford, Massachusetts Feb 2024 - May 2024
Tufts University - School of Engineering <i>Research Assistant</i> <ul style="list-style-type: none">Analyzed survey data from 3,557 students across three academic years (2020-2022) to identify patterns and trends in collaboration with the Office of Institutional Research and the Dean of Engineering	Medford, Massachusetts Feb 2023 - Apr 2023
Tufts Mexican Culture Club <i>Executive Board Member & Treasurer</i> <ul style="list-style-type: none">Managed administrative and budget-related tasks and organized events to promote Mexican culture. Collaborated with the Consulate of Mexico in Boston to successfully connect professors and students	Medford, Massachusetts Sep 2023 - May 2024

PROJECTS

Image Compressor: Implemented in C using discrete cosine transformation, quantization, and bit packing techniques
Universal Machine: Created a Turing-complete virtual machine in C, achieving 12x processing speed increase after profiling

SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, PyScript, HTML & CSS, SQL, MATLAB
Software: Microsoft Office 365, LaTeX, Onshape, LEGO Robotics, Arduino, GarageBand
Framework & Technologies: React, Git, GitHub
Languages: Spanish, English, French
Certifications: Social and Behavioral Research CITI Program, Google Web Development HTML & CSS