

JAVIER LAVEAGA AGUIRRE

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EDUCATION

Tufts University - School of Engineering **Medford, Massachusetts**
Bachelor of Science in Computer Science, Minor in French *May 2026*
Achievements: GPA: 3.86/4.00, Dean's List 2022-2024
Relevant Courses: Data Structures, Calculus III, Probability, Statistics, Discrete Math, Linear Algebra, Algorithms, Software Engineering, Machine Learning, Visual Analytics
Tufts in Talloires – France abroad program *May-July 2023*

WORK EXPERIENCE

Tufts University - Center for Engineering Education and Outreach **Medford, Massachusetts**
Software Developer Research Assistant *Sep 2024 - Present*

- Fixed bugs and added new features to a course website using Python and JavaScript, improving user experience and functionality

Technology Development Intern *Jun 2024 - Aug 2024*

- Developed interactive, web-based interfaces for LEGO Education using PyScript, JavaScript, HTML, and CSS, to improve user engagement
- Created 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

Tufts JumboCode **Medford, Massachusetts**
Software Developer *Sep 2024 - Present*

- Partnered with a nonprofit to improve the management of educational resources for tutors serving adult immigrants in Greater Boston
- Designed and developed a streamlined library system using Neon (PostgreSQL), Typescript, React and Clerk API

Tufts University - IDEA Lab **Medford, Massachusetts**
Undergraduate Researcher *Feb 2024 - May 2024*

- Trained a machine learning model using hyperspectral imaging to classify various types of plastic

Tufts University - School of Engineering **Medford, Massachusetts**
Research Assistant *Feb 2023 - Apr 2023*

- 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

Tufts Mexican Culture Club **Medford, Massachusetts**
Executive Board Member & Treasurer *Sep 2023 - May 2024*

- Managed budget and administrative tasks, organized cultural events, and to collaborated with the Consulate of Mexico

PROJECTS

HopOffer:

- Developed a mobile app for job discovery using React Native and Firebase, offering personalized job recommendations, swipe-based UI, and portfolio-building tools
- Designed UI components in Figma to enhance user experience and streamline job application workflows

AI Puppy:

- Built a web-based IDE for LEGO using Python (backend), PyScript (frontend) to teach AI through interactive lessons

SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, PyScript, HTML & CSS, SQL, MATLAB, x86 Assembly
Software: Microsoft Office 365, LaTeX, Tableau, Onshape, LEGO Robotics, Arduino, GarageBand
Framework & Technologies: React, Node.js, Git, GitHub
Languages: Spanish, French
Certifications: Social and Behavioral Research CITI Program, Google Web Development HTML & CSS