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: 3.88/4.00, Dean's List 2022-2024
    Relevant Courses: Data Structures, Calculus III, Probability, Statistics, Discrete Math, Linear Algebra, Algorithms, Software Engineering, Machine Learning, Visual Analytics, Machine Structure and Assembly Language Programming
Tufts in Talloires – France abroad program   *May-July 2023*

WORK EXPERIENCE

Tufts Technology Services   **Medford, Massachusetts**
Application Development Intern   *Sep 2025 – Present*
- Developed and enhanced Open OnDemand applications for Tufts HPC cluster, including dashboards for job, storage, and resource usage reporting
- Created user-facing documentation and gained hands-on experience with Linux systems and Slurm job scheduling

EVident Battery Inc.   **Westford, Massachusetts**
Full Stack Developer Intern   *May 2025 – Aug 2025*
- Developed responsive web interfaces in React to monitor and visualize EV battery inspection data in real time
- Implemented RESTful APIs and backend services using FastAPI and Node.js for secure data handling
- Designed and optimized PostgreSQL database schemas to support hardware-software integration
- Built CI/CD pipelines with GitHub Actions to automate testing, deployment, and backups to AWS S3

Tufts University - Center for Engineering Education and Outreach   **Medford, Massachusetts**
Software Developer Research Assistant   *Sep 2024 – Dec 2024*
- 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 an interactive, web-based IDE for LEGO Education within a team of 15 using PyScript, JavaScript, HTML, and CSS for teachers and students

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 - 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

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

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, TypeScript, 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, GitHub Actions, FastAPI, PostgreSQL, AWS (S3), Slurm
Languages: Spanish, French