

Josephine Servaes

(508) 630-6394 | www.linkedin.com/in/josephine-servaes | josieservaes.com | josephineservaes@gmail.com

EDUCATION

UMass Amherst Manning College of Information and Computer Sciences

Amherst, MA

Bachelor of Science in Computer Science, GPA 3.56, Expected 2027

Data Structures, Object Oriented Programming, Databases, Artificial Intelligence, Web Analytics, Algorithms, Computer Systems, Introduction to C, Software Engineering

EXPERIENCE

Software Engineer Intern

Marlborough, MA

Raytheon RTX

June 2026 - Present

- Supported software development efforts under security clearance requirements. I am unable to say more due to security restrictions currently.
- Technologies focused in C++, MATLAB, Jenkins with Multi Threaded Software Engineering and Object Oriented Concepts.

Software Development Intern

Acton, MA

Hoverlay

June 2025 – Dec 2025

- Designed and implemented REST APIs and internal tools with Python to support production client workflows.
- Built GUI-based automation tools to streamline data processing and reporting for business users.
- Integrated external data sources and internal systems to replace manual processes and reduce operational errors.
- Collaborated with engineers and clients to translate business requirements into scalable technical solutions.

PROJECTS

Seamstress - AI Resume Optimization & Job Matching Platform

Feb 21, 2026

- Built full-stack app (React + FastAPI) deployed on DigitalOcean.
- Integrated Gemini API with structured JSON validation to support reliable AI-guided resume editing.
- Implemented JSON schema validation with Pydantic.
- Deployed file storage using DigitalOcean Spaces (S3-compatible).
- Presented at HackHer413 UMass; received direct product interest from industry judges.

Stop-Spare-A-Dime – Full Stack Grocery Price Comparison Platform

Feb 2026 – May 2026

- Built full-stack grocery price comparison platform for the client.
- Implemented API integration, database connectivity, authentication, and comparison functionality.
- Contributed to frontend, backend, and database development under a strict project timeline.

Payroll Automation

June 2025 – Dec 2025

- Built a Python-based payroll processing system that ingests time entries directly from the QuickBooks Time REST API.
- Designed data pipelines to merge employee metadata, job codes, and rate sheets into structured payroll outputs.
- Implemented a custom GUI with React to enable automated payroll runs and CSV report generation.
- Eliminated manual calculations and reduced processing time and error rates.

ChatterAI Spanish Learning Application

Spring 2025

- Developed an AI-assisted Spanish language learning application using the OpenAI GPT-4 API, using PyTorch and scikit-learn.
- Implemented structured prompting, translation evaluation, adaptive feedback, and user progress tracking.
- Designed evaluation metrics including overlap scoring, verb conjugation detection, and gender recognition.
- Worked with dataset cleaning, API integration, and prompt engineering to simulate a Quizlet/Duolingo style learning experience for a semester long project.

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C, C++

Frameworks/Tools: React, OpenAI GPT API, FastAPI, REST APIs, Git, Jenkins, PyTorch, scikit-learn

Technologies: PostgreSQL, Firebase Auth, Web Scraping, GUI Development, Automation, Machine Learning, DigitalOcean