# WILLIAM (BILL) XIA

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## SUMMARY OF QUALIFICATIONS

- 3+ years of experience with full-stack AI software development, natural language processing (NLP), and large language models (LLMs), as well as data processing and human-computer interaction (HCI).
- 1 first-authored and 2 co-authored scientific papers in NLP and HCI.

## EDUCATION

**Bachelor of Science in Computer Science,** Tufts University                    Sept 2021 – May 2025
*Minors in Mathematics & English*
**GPA:** 3.81 / 4
**Honors:** *Summa cum laude*, Dean's List (all semesters)

## WORK EXPERIENCE

**Dassault Systèmes, SolidWorks Product Management Team**                    **Waltham, MA**
*AI Product Management Intern* | *Agentic AI, Full Stack Development*            June 2025 – Present
- Implemented an AI agent that can aid the SolidWorks Product Management team with data analysis, product documentation, and communication with SolidWorks engineers, executives, and customers.
- Integrated the agent into an internal web app for SolidWorks employees to access.

**National Library of Medicine, Natural Language Processing Lab**            **Bethesda, MD**
*Research Intern* | *NLP, LLMs, Hugging Face, Transformers, PyTorch*            June 2023 – May 2025
- Conducted research under Dr. Dina Demner-Fushman to design and implement a suite of LLM-based tools to perform a novel text simplification task on biomedical abstracts.
- Orally presented the novel task and data set at the *Text Retrieval Conference* on November 20, 2024.
- Wrote and submitted a first-authored paper to the *63rd Annual Meeting of the Association for Computational Linguistics* on February 15, 2025 (accepted).

**Tufts University, Department of Computer Science**                    **Medford, MA**
*Teaching Assistant for Tufts' Programming Languages Course*            Sept 2023 – May 2025
- Led two weekly recitation sections for up to 15 students at a time.
- Helped students in office hours with conceptual questions, debugging, etc.

**Tufts University, Human-Computer Interaction Lab**                    **Medford, MA**
*Research Assistant* | *Python, MATLAB, Data Science*                    May – Dec 2022
- Conducted research under Professor Robert Jacob on a project to differentiate mental workload states in participants performing cognitive tasks like playing chess.
- Used Python and MATLAB to perform principle component analysis on chess game data and brainwave data to identify key features in the data to be assessed by machine learning (ML) models.
- Submitted two co-authored papers to *IEEE Transactions on Cognitive and Developmental Systems* on May 29, 2024 (in review) and the *Neuroadaptive Technologies Conference* on January 20, 2025 (presented).

## FEATURED PROJECTS

**Senior Honors Thesis** | *LLMs, Ollama, LangChain, Agentic AI*            Sept 2024 – May 2025
- Conducted research under Professors Vasanth Sarathy and Matthias Scheutz to ground LLM agents using natural language world models for embodied reasoning, and creative problem solving.
- Wrote and published a 57-page thesis paper compiling my methods and results.

**Senior Capstone Project** | *ML, Full-Stack Development, AWS, MySQL*            Sept 2024 – May 2025
- Collaborated with a team to create an AI-powered lesson generation system for ASLdeafined, an online American Sign Language education program.
- Integrated the AI lesson generation system with ASLdeafined's database and front-end learning tools.

## SKILLS

**Programming Languages:** Python, Java, C/C++/C#, JavaScript, Linux, SQL, SML/OCaml, PHP, R, MATLAB
**Other Technical:** Hugging Face, Ollama, LangChain, PyTorch, MySQL, AWS, Unity, React.js, HTML, Git
**Spoken Languages:** English, Mandarin, Greek