




SHEPARD RODGERS

Beacon, NY (Home) ◇ Medford, MA (School)

917 · 284 · 0866 ◇ sheprodgers@gmail.com

 shepardrodgers.github.io ◇  linkedin.com/in/shepard-rodgers ◇  github.com/shepardrodgers

EDUCATION

Tufts University, Medford, MA September 2023 - May 2027 (expected)
MAJORS: Computer Science & STS (Science, Technology, and Society) 3.95 GPA
HONORS/AWARDS: Dean's List (All Semesters)
RELEVANT COURSEWORK: Reinforcement Learning, Programming Languages, Machine Learning & Data Mining, Linear Algebra, Algorithms, Data Structures, How Systems Fail, Machine Structure & Assembly, Discrete Mathematics
EXTRACURRICULARS: Tufts AI Safety (Director of Technical Programs), The Lantern: Tech Impact Publication (E-Board), CubeSat Team (Technical Lead), JumboCode, Bangin' Everything At Tufts (Former President)

EXPERIENCE

Public Interest Technology - New England | Impact Tech Fellow - ML & SWE May 2025 – June 2025
Gemini API, Prompt Engineering, Agile, NLP, Data Wrangling, React, MySQL Boston, MA
• Scrum lead for a 5-person team developing an **LLM-powered civic tool** for Dorchester's 26-block Talbot Norfolk Triangle, serving 2,000+ residents with insights from 5 years of public safety data and 3 years of community meeting transcripts.
• Apply Agile development practices, conduct dozens of code reviews, and facilitate weekly stakeholder meetings and on-site community engagement to align product features with lived experience and local safety concerns.
• Collect, clean, and filter public safety data; Craft prompts for Gemini to extract sentiment and trends from this data.

Tufts University, Department of Computer Science | Teaching Assistant January 2024 - Present
C, C++, Assembly, Cache Analysis, Technical Communication, Debugging, Architecture Review Medford, MA
• Support students in the Machine Structure/Assembly Programming and Intro CS courses at Tufts.
• Evaluate the structure and organization of students' code, including modularity, documentation, and formatting.
• Debug C++, C, and Assembly code at the machine level, focusing on computer architecture and modular programming.
• Teach coding skills and abstraction through weekly labs, online forums, and review sessions.

Tufts CubeSat Mission | Software Engineer October 2023 - Present
Python, Hardware API, Edge Detection, Convolutional Neural Networks, Optimization for Edge AI Medford, MA
• Build a computer vision model to recognize & classify space debris with high speed and accuracy onboard a satellite.
• Enhance in-orbit image capture pipeline by integrating GoPro API for live-feed access.
• Co-author and review a 92-page proposal to launch the CubeSat on a NASA rocket.

PROJECTS

Reading Level Classifier | *Python, Hyperparam. Selection, Cross-Validation, BERT* February 2025 - March 2025
• Trained a binary classifier to predict age suitability of text excerpts with 70% AUROC accuracy.
• Applied Google's BERT embeddings, grid search, and a multi-layer perceptron to refine model accuracy.

Theatre@First Inventory Website | *TypeScript, React, Tailwind CSS, GitHub, Figma* October 2023 - May 2024
• Developed a full-stack inventory management system for a non-profit theatre with an agile development team.
• Built a dynamic React UI for streamlined data entry and retrieval, greatly improving usability.

SKILLS

Languages	Python, C/C++, TypeScript, x86 Assembly, SQL (MySQL), HTML, CSS, \LaTeX
Frameworks	Gemini API, BERT, Scikit-learn, PyTorch, NumPy, Pandas, Jupyter, React
Developer Tools	GitHub, npm, pip, Conda, Valgrind, Figma, Google Workspace
Methods	Prompt Engineering, OOP, Data Structures, Algorithms, Model Tuning, Bit Packing