

# JOSHUA PFEFFERKORN

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## EDUCATION

**Dartmouth College**, Hanover, NH

June 2024

*Bachelor of Arts, Major in Computer Science, Minor in Digital Arts*

GPA 3.95/4.0

*Relevant Coursework:* Full-Stack Web Development, Algorithms, Object-Oriented Programming, Discrete Mathematics, Software Design and Implementation, Artificial Intelligence, Machine Learning, UI/UX Design

*Honors/Awards:* Magna Cum Laude, Citations in Digital Design and Security Engineering

## LANGUAGES & SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS

**Technical Skills:** Git, React.js, React Native, Node.js, Express.js, Figma, Adobe Illustrator & Photoshop, LaTeX

## RELEVANT EXPERIENCE

**Voltera**, Remote

January 2024 - Present

*Lead Software Developer*

- Independently developed SaaS tool to identify reimbursable non-therapy ancillary services in PDF documents; validated to reduce patient intake time at skilled nursing facilities by **75%** and find an additional **~\$5k/patient** in reimbursements
- Managed and mentored a team of interns, leading the development and execution of the product roadmap, coordinating development sprints, and conducting code reviews

**EY-Parthenon**, Boston, MA

June 2023 - August 2023

*Summer Associate, Software Strategy Group*

- Conducted multiple market and technology diligences for private equity clients entering the software space
- Prepared comprehensive deliverables on the tech stack, architecture, hosting, and R&D organization of software solutions

**Dartmouth Applied Learning and Innovation Lab**, Hanover, NH

January 2023 - November 2023

*Software Developer*

- Collaborated with small teams of product designers and software engineers to design, develop, and test web and mobile software applications for external partners using **agile methodology** (10-15 hours/week during academic term)

**Greenbox Storage**, Hanover, NH

December 2022 - May 2023

*UI/UX Designer*

- Used Figma to independently design user interface and experience for both internal sales dashboard and customer-facing order portal, impacting user experience for staff and **2,000+ customers** across **18 college campuses**

## PROJECTS

**Paper Trail**

March 2024

*Web Application*

- Developed a full-stack platform for real estate transaction management using **TypeScript**, **React.js**, **Node.js**, **Express.js**, and **MongoDB** that supports GitHub-like version tracking for legal documents

**Flashback**

May 2023

*Mobile Application*

- Designed and developed full-stack mobile application using **React Native**, **Node.js**, **Express.js**, **MongoDB**, and **Firebase**
- Features user account creation and authentication, in-app photo capturing, social group creation, and photo sharing

**Music Genre Classifier**

May 2023

*Python Script*

- Developed a genre classifier for Russian song lyrics using **scikit-learn**, **NLTK**, **Hugging Face**, and other NLP libraries
- Achieved over 70% accuracy on a dataset of over 5,000 songs using TF-IDF vectorization and an SVM classifier

**Wordle Solver**

March 2022

*Python Script*

- Used information theory to code a **Python** solver that could find the answer to Wordle puzzles in an average of about 3.5 guesses, storing word entropies in a map ADT for rapid lookup of high-information guesses

## LEADERSHIP & ACTIVITIES

**Dartmouth Computer Science Department**, Hanover, NH

January 2022 - June 2022

*Teaching Assistant for Object-Oriented Programming (Java) & Machine Learning (Python)*

- Instructed small groups of 8-12 students during weekly programming sessions, held three hours of office hours weekly to assist students with assignments and studying, and graded and provided feedback on assignments and examinations