

# Samuel Reed

**Phone:** 860-575-2320

**Email:** samreed12@att.net

**Website:** sam-reed.com

4 Frederick Place, Clinton, CT 06413

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## EDUCATION

### Tufts University (Expected Graduation May 2025)

*Bachelor of Science in Computer Science, Minor in Engineering Management*

- GPA: 3.80 / 4.0
- Relevant Coursework: Data Structures, Algorithms, Software Engineering, Intro Machine Learning, Mobile Application Development, Computation Theory
- Maintained Dean's List every semester

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## SKILLS

- Programming Languages: C++, C, Swift, Javascript, Java, Python, PHP, HTML/CSS
- Framework and Technologies: Node.js, React, Git, NumPy, Scikit-Learn, jQuery
- Software Packages: Microsoft Office
- Databases: SQL / NoSQL, MongoDB

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## EMPLOYMENT HISTORY

### Tufts University

September 2022 - Present

*Course Assistant for CS20: Web Programming*

- Manage the CA team to ensure timely grading and student support
- Maintain weekly office hours to assist students with current assignments
- Grade weekly homework assignments, quizzes, midterms, and final projects and presentations
- Develop debugging skills by troubleshooting and resolving technical issues encountered by students

### Harvard University

June 2023 - August 2023

*Teaching Assistant for CSCI S-38: Introduction to C++ for Programmers*

- Developed effective communication and programming skills working with students in a virtual environment
- Maintained weekly Office Hours to assist with assignments over Zoom
- Collaborated with Teaching Staff through Zoom and Slack to grade weekly assignments and projects
- Responded to student questions on a discussion forum

### Shoreline Theater Academy

2018 - Present

*Technical Director*

- Construct, program, and operate sound and lighting systems for theatrical performances
- Serve as sound designer and lighting designer for various productions

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## PROJECTS

### Time Crunch Trivia iOS App

- Designed and developed an iOS trivia game using SwiftUI, allowing users to challenge each other
- Built a custom API to support seamless multiplayer functionality and optimize performance
- Published on the App Store with a growing user base and high daily active engagement
- App Link: [sam-reed.com/app](https://sam-reed.com/app)

### Reed Family Light Show

- Programmed and executed a synchronized holiday light show utilizing RGB pixels and custom controllers
  - Constructed a computer network to sync individual controllers and a series of Raspberry Pis
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