

# Gweneth Stewart

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Havertown, PA Willing to relocate

## EDUCATION

### Boston University

Boston, MA

*Bachelor of Arts in Computer Science*

Jan. 2022 – May 2025

GPA: 3.43/4.00

## PROJECTS

### Guitar Tuner | C++, JUCE, Digital Signal Processing

Summer 2025

- Developed a real-time guitar tuner application using autocorrelation to detect pitch from audio signals.
- Accomplished efficient buffer management and latency testing to ensure high accuracy and responsiveness.
- Designed a simple and intuitive MacOS GUI in JUCE, emphasizing performance and usability.

### PID Balance Board | C, LINUX, POSIX.4, dsPIC33 micro-controller

Spring 2025

- Designed an embedded PID control system with two other students to balance a weighted ball on a touchscreen.
- Programmed LCD and digital I/O modules, configured timers and interrupts for real-time servo control.
- Applied a Butterworth filter to suppress touchscreen noise and improve input stability.

### Collaborative Filtering for Recommendation Systems | Python, Scikit-Learn, NumPy

Spring 2024

- Investigated memory and model-based collaborative filtering techniques.
- Utilized Matrix Factorization, SVD, Stochastic Gradient Descent, and Cosine Similarity.
- Benchmarked models on the MovieLens dataset, comparing performance with RMSE.

### College Kitchen | React, HTML/CSS, JavaScript

Spring 2024

- Collaborated with a team of 3 students to develop a full-stack web application integrating Spoonacular API, Firebase Realtime Database, and Google authentication.
- Allows users to discover recipes based on the ingredients in their virtual pantry with a simple and intuitive UI.
- Followed agile and scrum principles to manage tasks, collaboration, and deliver milestones efficiently.

## TECHNICAL SKILLS

**Languages:** C++, C, Python, Java, JavaScript, Typescript, HTML/CSS, SQL

**Frameworks:** React, Next.js, Node.js, JUCE

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, XCode

**Libraries:** pandas, NumPy, Matplotlib, sciKit-Learn

**Other:** Data Structures & Algorithms, Multivariable Calculus, Computer Graphics, Embedded Systems

## EXPERIENCE

### Server

Oct. 2025 – Present

*Casey's Pourhouse*

Berwyn, PA

- Communicated effectively with kitchen and bar staff to ensure excellent customer service.
- Handled customer inquiries and requests accurately and efficiently.

### Barista

Jun. 2025 – Aug. 2025

*Life Alive Cafe*

Cambridge, MA

- Managed concurrent orders and tasks under stress in a fast-paced environment.
- Used attention to detail to achieve reliable and repeatable results.

### Server

Jun. 2021 – Aug. 2024

*Barnaby's of America*

Havertown, PA

- Delivered high-quality and friendly service in a family-oriented environment.
- Contributed to a team that relied on clear communication and adaptability.

## ACTIVITIES

### Graphic Designer

Jan. 2024 – Jun. 2024

*Boston University Review*

Boston, MA

- Collaborated with a team of talented students to complete a polished literature and art magazine.
- Aimed to provide BU students with a platform to publish and showcase creative writing and artwork.
- Designed the art and layout of our Spring'24 issue.