

Gweneth Stewart

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Havertown, PA **Willing to relocate**

EDUCATION

Boston University

Bachelor of Arts in Computer Science

GPA: 3.43/4.00

Boston, MA

Jan. 2022 – May 2025

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 utilizing the JUCE graphics framework

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.

Movie Recommendation System | Python, Scikit-Learn, NumPy

Spring 2024

- Investigated memory and model-based collaborative filtering techniques on a dataset of **100k user ratings**.
- Utilized Matrix Factorization, SVD, Stochastic Gradient Descent, and Cosine Similarity.
- Benchmarked models on the MovieLens dataset, comparing performance with RMSE.

College Kitchen: Full-Stack Web App | React, HTML/CSS, JavaScript

Spring 2024

- Collaborated with a team of three 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.

PROFESSIONAL CERTIFICATIONS

AWS | Certified Cloud Practitioner

Feb. 2026

TECHNICAL SKILLS

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

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

Tools: Git, Docker, AWS, Excel, PostgreSQL, dbt, OpenGL

Libraries: Pandas, NumPy, Matplotlib, scikit-learn

Interests: Data Structures & Algorithms, ETL Pipelines, Computer Graphics, Embedded Systems

EXPERIENCE

Server

Oct. 2025 – Present

Casey's Pourhouse

Berwyn, PA

- Communicated effectively with cross-functional staff to ensure excellent customer service.
- Handled customer inquiries and requests accurately and efficiently in a high-volume restaurant setting.

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.

LEADERSHIP

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.