

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 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 task 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.