Gweneth Stewart

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Havertown, PA - 19083

EDUCATION

• **Boston University** *Jan. 2022 - May 2025*
BA Computer Science Boston, MA
◦ GPA: 3.43/4.00

PROJECTS

• **3D Mesh Shaded Rendering** *December 2024*
Tools: [OpenGL, Python]
◦ Implemented 3D rendering pipeline in Python/OpenGL to display primitives including spheres, cubes, cones, and torus shapes.
◦ Utilized the Phong illumination Model to achieve realistic lighting effects.
◦ Applied a custom fragment shader with the use of the Phong shading method of per-pixel lighting calculation.

• **Collaborative Filtering for Recommendation Systems** *Spring 2024*
Tools: [Python, Scikit-Learn, NumPy] [G]
◦ Developed and investigated memory and model-based collaborative filtering techniques
◦ Used Matrix Factorization, SVD, Stochastic Gradient Descent, and Cosine Similarity
◦ Benchmarked models on the MovieLens dataset, comparing performance with RMSE.

• **College Kithcen: React Web-app** *Spring 2024*
Tools: [React, HTML/CSS, JS] []
◦ Built a full-stack web application integrating Spoonacular API, Firebase Realtime Database, and Google OAuth authentication.
◦ Allows users to discover recipes based on the ingredients in their virtual pantry

SKILLS

• **Programming Languages:** Python, C++, C, Java, JavaScript
• **Web Technologies:** HTML/CSS
• **Database Systems:** MongoDB, SQL
• **Data Science & Machine Learning:** NumPy, Scikit-Learn, MatPlotLib, Excel
• **DevOps & Version Control:** Git
• **Specialized Area:** Computer Graphics, Computational Fabrication, Machine Learning
• **Mathematical & Statistical Tools:** Multivariate Calculus, Discrete Math, Algorithms, Probability & Statistics

ACTIVITIES

• **Girls Who Code: Member** *Jan. 2023 - May 2025*
Boston University []
◦ Created a welcoming environment for women in computer science.
◦ Introduced new fields of study within computer science to other members.
◦ Assisted other members with homework and personal projects.

• **Boston University Review: Graphic Design Team** *Jan. 2024 - June 2024*
Boston University []
◦ Designed the art and layout of our Spring'24 issue.
◦ Allowed students at BU to have published writing and artwork.
◦ Collaborated with a team of talented students to complete a polished literature and art magazine.