CARA CALCULUS

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EDUCATION

University of Maryland, Baltimore County (UMBC)   **Baltimore, MD**

BS, Mathematics, GPA: 3.95   Expected: May 20xx

RELEVANT COURSEWORK

- Mathematical Analysis I & II
- Probability Theory
- Linear Algebra
- Mathematical Statistics
- Discrete Structures
- Computer Science I (Python)

SKILLS

- Python (Proficient)
- MATLAB (Basic)
- C (Basic)

EXPERIENCE

National Institute of Standards and Technology (NIST)   **Gaithersburg, MD**

Intern - SURF Program/Undergraduate Research   May 20XX – August 20XX

- Gained exposure to image processing and image segmentation.
- Developed an improved method of determining the optimal number of regions in microstructure material images using clustering algorithms.
- Created and implemented tests in Python using the NumPy and SciPy packages.
- Modified code so that it could be applied to RGB (colored) images.
- Presented results to NIST employees and other undergraduate researchers.

UMBC Math Gym   **Baltimore, MD**

Math Gym Coach/Tutor   August 20XX – April 20XX

- Assisted students with improving their mathematical ability and performance in class.
- Graded quizzes and assignments to provide feedback for students.
- Encouraged students to develop a passion for Math by teaching new strategies and methods.

EXTRACURRICULAR ACTIVITIES

Pi Mu Epsilon Mathematics Honors Society (Secretary)   September 20XX – Present

Phi Kappa Phi Honors Society   April 20XX – Present

SERVICE ACTIVITIES

First Lego League (FLL) volunteer   January 20XX, 20XX

- Escorted middle school students to competition areas around UMBC campus.