

# Rashmika Goswami

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## Education

University of Michigan - Ann Arbor  
Computer Science BSE, Minor in Mathematics  
GPA: 4.00, Expected Graduation: 2018

## Course Highlights

- Currently enrolled in: Introduction to Cryptography, Computer Vision
- Introduction to Machine Learning, Abstract Algebra, Number Theory
- Data Structures and Algorithms: Covered algorithm analysis and fundamental data structures such as priority queues, hash tables, and trees

## Work

- Instructional Aide, EECS 376: Foundations of Computer Science (September 2016 - Present)
  - Providing support to students enrolled in course through discussion sections and office hours
- Summer Undergraduate Research Institute in Experimental Mathematics (May 2016 - July 2016)
  - Research Experience for Undergraduates in Discrete Mathematics, funded by the NSA, NSF, and hosted by Michigan State University
  - Conducted research on combinatorial games on graphs and developed algorithm to determine outcomes of such games
  - Attended MAA MathFest 2016 and SUMMR 2016 Conferences to present findings
- Undergraduate Student Researcher, Biomedical and Clinical Informatics Lab (May 2015 - February 2016)
  - Developed algorithms for the detection of stenosis in coronary angiograms.
  - Successfully implemented method for the removal of obstructive artifacts from angiogram images
- Undergraduate Research Opportunities Program (September 2014 - April 2015)
  - Tested and edited algorithms for fracture detection and segmentation of pelvic CT scans using active shape modeling
- Grader, Art of Problem Solving (August-November 2014)
  - Graded and provided constructive feedback for student solutions in a variety of math courses

## Skills

- Extensive experience with Matlab, specifically in image processing
- Familiar with C++, LaTeX, Python, Sage
- Previous experience with Java, HTML, Arduino

## Honors

- Dean's List, University Honors
- Awarded Engineering Scholarship of Honor by University of Michigan (2013)

## Organizations

- Elected to Eta Kappa Nu honor society, Beta Epsilon chapter (2015)
- Michigan Ballroom Dance Team (September 2014 - Present)
- Selected for Women in Science and Engineering Residence Program (WISE RP) (2014)