

Sofia Panuganti

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EDUCATION

University of Maryland Baltimore County
Master of Science, Computer Science

Baltimore, MD

May 2023 (Expected)

- **3.617/4.0 GPA**
- **Graduate Coursework:** Adv. Operating Systems, Design and Analysis of Algorithms, Principles of Computer Security, Data Visualization.

Jawaharlal Nehru Technological University
Bachelor of Technology, Computer Science

TG, Hyderabad, India

Aug. 2017 – June 2021

- **3.72/4.0 GPA**
- **Relevant Coursework:** Database Management Systems, Big Data Analysis, Data structures and Algorithms, Object Oriented Programming through Java.

SKILLS

Programming/Scripting Languages: Java, Python, C, HTML, CSS, JavaScript, ReactJs, SQL.

Tools/Platform: Unix, Git, VSCode, Eclipse.

PROJECTS

Image Texture Synthesis using Graphcut

April 2022

- Technology stack: Python, GIT
- Formulated seam optimization as a Graphcut problem. Implemented Ford-Fulkerson algorithm to stitch patch regions from a sample image along the optimal seams to generate new, larger output image.

A Simple Encoder Decoder Model for Text Summarization

June 2021

- Technology stack: Pandas, Keras
- Implemented deep learning sequence-to-sequence techniques to extract contextual summary of source text.

Sentiment and Emotion Analysis

Aug. 2020

- Technology stack: PyCharm, NLTK
- Sentiment analysis of texts and tweets to detect positive, neutral, or negative feelings from text. The dominant emotions are identified and visualized on a graph.

EXPERIENCE

Graduate Student Assistant, University of Maryland Baltimore County

Jan. 2022 – Present

Principles of Computer Security (CMSC 426)

- Assisted professor in grading student lab assignments and homework.

Teaching Assistant, Jawaharlal Nehru Technological University

Jan. 2018 – Aug. 2018

Computational Mathematics

- Held weekly office hours. Tutoring and problem set instruction for students increasing class grade by 10%.

VOLUNTEER EXPERIENCE & INTERESTS

Hyderabad Youth Assembly, Vice Chair.

Dec. 2018 – Dec. 2019

- Managed a team of 25 to organize and conduct events United Nations SDGs impacting 1,000 underprivileged. Conducted fundraising events as team lead.

Interests: Tennis, video games, VFX and motion graphics.