

# Nafis Ahmed

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## EDUCATION

### Vanderbilt University

Bachelor of Engineering, Computer Engineering

Nashville, Tennessee  
GPA: 3.73/4.00, May 2022

**Technical skills:** C++, MATLAB, Java, Python, Microcontroller Programming, High-Performance Computing

**Relevant Coursework:** Data Structures, Intermediate Software Design, Computer Organization, Operating Systems, Microcontrollers, Circuits, Signals & Systems, Image Processing, Economic Statistics

## PROFESSIONAL EXPERIENCE

### Neuroimaging & Brain Dynamics Lab

*Undergraduate Research Assistant*

Nashville, Tennessee  
May 2019 – Present

- Developed a machine learning model to automate the detection of vigilance states from EEG data with 91% accuracy. (*Manuscript of the study that this project contributed to is under consideration for publication.*)
- Investigating the nature of physiological signals in neuroimaging and their possible effects on cognition.

### Kidambi Research Group

*Undergraduate Machine Learning Researcher*

Nashville, Tennessee  
January 2020 – May 2020

- Created a pattern recognition system to identify different crystallographic systems from transmission electron microscopy (TEM) images.
- Ultimate goal is to grow carbon nanotubes from a non-traditional crystal catalyst which will, among other applications, enable significantly stronger carbon-fiber reinforced composites.

### Department of Electrical Engineering & Computer Science, Vanderbilt University

*Teaching Assistant, Programming and Problem Solving (CS 1101)*

Nashville, Tennessee  
August 2019 – Present

- Assist 200 first-time programmers in the introductory programming course by holding weekly office hours and providing feedback on assignments and exams.

## LEADERSHIP AND ACTIVITIES

### Elon Online Bookstore

*Founder*

Dhaka, Bangladesh  
June 2018 - Present

- Sell high school textbooks at the cheapest price in the city with free three - day delivery.
- Guide a team of four to deliver *BDT 400,000 (USD 4,750)* worth of books every year to our 1,200+ customer base, all the while maintaining 5.00/5.00 stars for our service.
- Spearheaded customer acquisition and promotional programs that lead to 79% growth in annual order volume.

### Major League Hacking (MLH) Local Hack Day

*1st Place, Vanderbilt University*

Nashville, Tennessee  
December 2018

- Developed the backend for a face detection attendance system using Microsoft Azure's REST API to count the number of students present in a classroom and prevent false attendance in TopHat.

### VandyHacks

*Board Member, Communications and Marketing*

Nashville, Tennessee  
January 2019 – December 2019

- Acted as the medium of communication between 650+ participants and the rest of the board to effectively organize and promote the largest hackathon in the state.
- Implemented marketing strategies that resulted in the highest turnout for on-campus workshops.

### Vanderbilt Bongo Shongho

*Co-Founder, President*

Nashville, Tennessee  
September 2018 - Present

- Undertake decisions to orchestrate events and promote the rich Bengali culture on campus.
- Funds raised have increased by 88% since elected as President.

### Emperor Neuro – [www.emperorneuro.com](https://www.emperorneuro.com)

August 2019 - Present

- Creating a one-stop location to learn about and stay updated with the latest news on neurotechnology.