Nafis Ahmed

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EDUCATION

Vanderbilt University   Nashville, Tennessee
Bachelor of Engineering, Computer Engineering   GPA: 3.73/4.00, Graduation: May 2022

Technical skills: C/C++, Java, MATLAB, Python, Assembly Language, Linux, Git

Relevant Coursework: Data Structures, Intermediate Software Design, Microcontrollers, Operating Systems, Circuits, Mobile & Wireless Networks, Signals & Systems, Image Processing

PROFESSIONAL EXPERIENCE

Neuroimaging & Brain Dynamics Lab   Nashville, Tennessee
Undergraduate Research Assistant   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 is under consideration for publication.)*
- Investigating the nature of physiological signals in neuroimaging and their possible effects on human cognition.

Kidambi Research Group   Nashville, Tennessee
Undergraduate Machine Learning Researcher   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 EECS, Vanderbilt University   Nashville, Tennessee
Teaching Assistant, Programming and Problem Solving (Java)   August 2019 – Present
- Assisting *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   Dhaka, Bangladesh
Founder   June 2018 - Present
- Worked on the initial feature planning to sell books at the cheapest price in the city with free shipping.
- Monitoring the on-going operation 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   Nashville, Tennessee
1st Place, Vanderbilt University   December 2018
- Developed the backend for a face detection attendance system using Java and Microsoft Azure's Face API to count the number of students present in a classroom and prevent false attendance in TopHat.

VandyHacks   Nashville, Tennessee
Board Member, Communications and Marketing   January 2019 – December 2019
- Acted as the medium of communication between *650+* participants and the organizers to nurture cross-group collaboration and to promote the largest hackathon in the state.
- Implemented marketing strategies that resulted in the highest turnout for on-campus workshops.

Vanderbilt Bongo Shongho   Nashville, Tennessee
Co-Founder, President   September 2018 - Present
- Undertaking decisions to orchestrate events and promote the rich Bengali culture on campus.
- Funds raised have increased by *88%* since elected as President.