

# Devkumar Banerjee

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## EDUCATION

### A&M Consolidated High School

High School Diploma

August 2021–Present

College Station, TX

- **GPA: 4.00/4.00**
- **SAT:1550/1600**
- **PSAT: 1520/1520**
- Clubs and Societies: AI/ML-Cybersecurity Club (Co-founder and President), CyberPatriot (President, Linux Team Lead), NHS Member, Mu Alpha Theta (Treasurer), Model UN (Treasurer).
- AP Coursework: AP Calculus AB, AP Calculus BC, AP Statistics, AP Computer Science A, AP Physics 1, AP Physics C: Mechanics, AP Physics C: E&M, AP English Language & Composition, AP Spanish Language & Culture, AP United States History, AP World History, AP Human Geography.

### Texas A&M University

Non-degree seeking

August 2024–Present

College Station, TX

- Relevant coursework: **Engineering Calculus III (MATH 251), Linear Algebra (MATH 304)**

## WORK EXPERIENCE

### Clarkson University

Student Trainee

January 2024

Potsdam, NY (Remote)

- Participated in an NSF-funded graduate-level training program as a high school junior.
- Worked with other graduate students from Stony Brook University and TU Dortmund.
- Used tools such as the Portable, Extensible Toolkit for Scientific Computation (PETSc) and the Scalable Library for Eigenvalue Problem Computations (SLEPc) to solve eigenvalue problems.
- Solved Ordinary Differential Equations (ODEs) to reduce computational intensity in scientific modeling.

### Houston Methodist Research Institute

Machine Learning in Nanomedicine Research Intern

March 2023–August 2023

Houston, TX

- Presented research on Nanoparticle Tumor Biodistribution at the 2023 Houston Methodist Summer Science Symposium.
- Utilized Open-source tools such as Pandas, Scikit-Learn, and PyTorch to train feature selection algorithms over 23 unique categories.
- Gained 30+ Bariatric Surgery Shadowing Hours

### Safe Tech, Inc. (STI)

STEM Intern

June 2021–March 2023

College Station, TX

- Educated more than 50 Project-Lead-The-Way (PLTW) teachers in Brownsville ISD (a Title I school district) on how to implement Jupyter Notebooks and Python in school STEM curricula.

## VOLUNTEER EXPERIENCE

### Texas A&M University

Junior Counselor (600 hours)

June 2020–June 2022

College Station, TX

- Mentored 600+ gifted high school students in cybersecurity, mathematics computing, and AI-based topics in minority communities.

## AWARDS

2x MLH Hackathon Winner (TAMUHack and TAMU Datathon)

2x AFA CyberPatriot - Top 100 Overall - National Semifinalists

2x National Cyber Scholar with Honors

3rd place - Business Professionals of America - National Leadership Conference - Linux Competitive Event

## SKILLS

**Skills:** Bash, Git, Keras, Linux, Machine Learning, Pandas, Python, PyTorch, PyTorch Lightning, Tensorflow

## PUBLICATIONS & PRESENTATIONS (CONFERENCE/ WORKSHOP)

*NASA Thermal and Fluids Analysis Workshop 2022*

7<sup>th</sup> September 2022

Presented research on the performance of AI algorithms by leveraging SLURM on the Raspberry Pi (<https://go.nasa.gov/3VABkhv>)

*Houston Methodist Summer Science Symposium 2023*

5<sup>th</sup> August 2023

Presented research on the performance of AI/ML feature-selection algorithms for identifying determinants of nanoparticle tumor biodistribution.

## CERTIFICATIONS, LICENSES, AND CREDENTIALS (ABRIDGED)

For a full list of all 150+ certifications, licenses, and credentials, please see: <https://bit.ly/BanerjeeDevkumarFullCertList>

GIAC Foundational Cybersecurity Technologies (GFACT)

GIAC Security Essentials (GSEC)

## LANGUAGES

- Bengali - Native proficiency
- Spanish - Working Proficiency