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EDUCATION

Hooghly Engineering and Technology College

Bachelor of Technology in Computer Science Engineering

Aug. 2021 – present

West Bengal

- **CGPA:** 8.19/10
- **Relevant Coursework**
 - Data Structures
 - Algorithms Analysis
 - Software engineering

RESEARCH INTEREST

- Security in Microservices
- Machine-Learning based Authentication system
- Cloud-security

EXPERIENCE

Academic-Project:

Developer, Researcher

Jul. 2023 – present

Hooghly, West Bengal

- Classification of Ddos-Attack in Machine Learning
Professor: Sirshendu Hore
- This Project is basically on analyzing the Ddos-attack data set, based on that data, types of Ddos-attack are defined
- End goal of this project is to develop machine learning models on each types of Ddos-attacks, model that performs best to identify the attacks are accepted as efficient
- Finally, preparing the report out of the project
- tools that are being used google-colab, python, pandas for data-analysis

PROJECTS

Web Crawler | Javascript, Nodejs, Vscode

September 2023

- The challenge was to create a robust and efficient crawler that could collect specific information from websites on a regular basis while respecting ethical web scraping guidelines.
- Conducted extensive research on web crawling techniques and best practices to ensure compliance with legal and ethical standards.
- Designed and implemented a javascript-based (nodejs was used) crawler and continuously tested, (*Jest* was used as a test-suite) with respect to website terms of services that adhere to website rules, such as respecting robots.txt files
- Achieved a 90 percent success rate in data extraction, even from complex websites with dynamic content.

Authentication System | Javascript, nodejs, expressjs, Vscode

August 2023

- Created a JWT-based Authentication system as a demo project in order to have a understanding of its working.
- Designed and developed a JWT-based authentication system from scratch for our web application. Javascript frameworks like nodejs and reactjs was used to built the project
- This project succeed for future security improvements and positioned the application as a more trustworthy platform for users.

Javascript Calculator | Vanilla javascript, HTML/CSS

March 2023

- Developed a Web-based calculator that function like a normal calculator
- Vanilla javascript and HTML/CSS has been used.
- Developed the logic for performing addition, subtraction, multiplication, and division operations.
- This project served as a valuable exercise in front-end development, improving my skills in HTML, CSS, and JavaScript, and showcasing my ability to deliver user-friendly applications.

SKILLS

Programming Languages: Javascript, HTML/CSS, Java, Python, SQL

Developer Tools: VS Code, AWS, Docker

Technologies/Frameworks: React, Node, Kubernetes

Specialization: MERN stack development

Soft-skills: Negotiation, Leadership

CERTIFICATIONS

Introduction to Cloud Computing on AWS by <i>Neal Davis</i>	Sep. 2023
Practical Ethical Hacking by <i>Heath Maverick Adams</i>	Sep.2023
Internet History, Technology and Security by <i>University of Michigan</i>	May 2023
Programming for Everybody (with Python) by <i>University of Michigan</i>	Jun.2022

LEADERSHIP

Robozigger event in TechFest	17 Mar. - 18 Mar 2023
<i>Team lead</i>	<i>Hooghly, West Bengal</i>
<ul style="list-style-type: none">• Lead and managed a team of 5 members with different roles• There were hardles that was to be crossed by the Rover• Managed to build the rovar maintaining all the technical aspects and successfully compeleted the event with second place finish	

ACHIEVEMENTS

Inter-college Robozigger Competition	Mar. 2023
<ul style="list-style-type: none">• I made the rover to complete the hardles within a short span of time• I successfully achieved the Second place and reward of 8000 rupees as a price money in this event after competing with more than 15 colleges	

EXTRA-CURRICULAR ACTIVITIES

Member of Coding club	Jan 2022 - Present
Participated in Poster making competition	Apr. 2022
<i>college level</i>	<i>Hooghly, West Bengal</i>