

SAYOK BOSE

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Education

Texas A&M Engineering Honors

Bachelor of Science in Computer Science (3.92)

Aug. 2022 – May 2026

College Station, TX

Relevant Coursework

- Minor in Mathematics and Statistics
- Honors Discrete Structures for Computing
- Honors Data Structures and Algorithms
- Computer Organization and Programming Languages

Experience

Berkely Spring Instruments

May 2024 - Current

Software Intern

Frostburg, MD

- Created Simulation of Pipe Flow: Developed a detailed simulation of pipe flow using Three.js, enhancing the visualization and analysis of the inside of the pipe
- Web UI Development: Designed and implemented a web user interface using CakePHP, integrated with Ajax and MySQL for dynamic data handling and improved user experience.
- Unreal Engine 5 Simulations: Built advanced pipe flow simulations using Unreal Engine 5, providing high-fidelity visualizations and interactive features.
- AI and Sensor Data: Worked on projects involving unsupervised and generative AI, utilizing sensor data to develop predictive models and enhance system automation.

Sonomatic

Jun 2023 – Aug 2023

Software Engineer Intern

Houston, TX

- Lead software developer on the Joint Large Standoff Magnetometry Research Project, an emerging non-intrusive passive geo-magnetization flux leakage measurement technology to detect pipeline anomalies.
- Developed user-friendly software using Python for efficient data scraping from magnetometers, using various libraries for data visualization such as graphs and 3D meshes.

Hindu Heritage Youth Camp

Aug 2021 - Current

Counselor

Houston, TX

- Helped run and manage in conjunction with 50 other student counselors of over 300 children. This included creating education plans, planning schedules and activities as well as being liable and responsible for kids from ages 9 to 18.

Projects

NBA Prediction Model | Python

Feb 2024

- Utilized web scraping techniques to gather comprehensive NBA game data, extracting player and team statistics for analysis. Leveraging Python and data manipulation libraries, I engineered features such as player performance metrics and opponent statistics to develop predictive models for forecasting player performance.

Satisfaction Detector: | Python, Power BI, DAX

Sept 2023

- Engineered a program utilizing OpenCV2 and deepface, leveraging a Convolutional Neural Network to accurately classify 7 distinct human emotions which then determines a customers satisfaction. The program efficiently records and logs unique customer faces' satisfaction via the devices camera which is then transferred from a database into PowerBI using DAX for intuitive data visualization for business owners helping them to make decisions.

ResumeBuilder | Python, HTML, JavaScript

March 2024

- Developed an innovative Flask-based application that leverages machine learning to analyze resumes and automate the job application process. The program employs web scraping techniques to extract key information from job postings, then utilizes OpenAI's language models to generate tailored, formatted resumes for each application.

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, C++, PHP, SQL

Technologies/Frameworks: GitHub, React, WordPress, ThreeJS, Ajax, Flask

Awards

Brown Scholar

Feb 2022-Current

Craig and Galen Brown Foundation

Texas A&M University

- The Craig and Galen Brown Foundation scholarship, which, along with the National Merit Finalist President Endowed Scholarship, gives me a full ride, \$ 100,000+ scholarship to attend AM, was awarded to me for demonstrating high academic achievement along with being a National Merit Finalist, involvement in extracurricular activities and community service, leadership, and excellent people and communication skills.