Yash Baruah

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EDUCATION

University of Texas at Dallas — Richardson, TX
Bachelor of Science in Computer Science — *Expected May 2027*
Relevant Coursework: Computer Science II, Computer Architecture, Data Structures and Algorithms, Systems Programming

Carroll Senior High School — Southlake, TX
High School Diploma (STEM Emphasis), GPA: 4.0 (98.836/100) — *Aug. 2020 – May 2024*

PROJECTS

AI Music Genre Classification Using CNN Model | *Python, TensorFlow, React* — Sept 2024 – Present
- Built a CNN model to classify music genres from audio data.
- Utilized **librosa** for feature extraction and **TensorFlow** for model training.
- Developed a **React** front-end for file uploads and displaying predictions.

Personal Website Development | *HTML, CSS, JavaScript, React, Node.js* — Sept 2024 – Present
- Designed and developed a responsive personal website to showcase projects and skills using **HTML**, **CSS**, **JavaScript**, **React**, and **Node.js**.
- Implemented interactive features and animations to improve user experience.
- Optimized website performance and ensured cross-browser compatibility through thorough testing.

Daily LeetCode Discord Bot | *Node.js, Discord API, MongoDB* — Sept 2024 – Present
- Developed a Discord bot that delivers daily LeetCode problems using **Node.js** and **Discord API**.
- Integrated **MongoDB** to manage user data and track problem history efficiently.
- Ensured reliability and scalability through optimized coding practices and database management.

Machine Learning & Social Media Analysis | *Machine Learning, Data Science* — June 2022 – Sept 2022
- Analyzed social media data to identify trends in user engagement using machine learning algorithms.
- Developed predictive models to identify patterns and forecast user activity.
- Authored a research paper on misinformation's impact on social media during the Covid-19 pandemic through the **Horizon Summer Program**.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, HTML, JavaScript, SQL
- **Software Development:** Agile & Scrum methodologies, Fullstack
- **Web Development:** HTML, CSS, JavaScript, React, Node.js, LaTeX
- **Cloud Platforms:** AWS, Azure, Google Cloud
- **Operating Systems:** Windows, macOS, Microsoft 365, iOS, Android
- **Networking:** TCP/IP, DNS, and basic network protocols

EXPERIENCE

Assistant Manager | *Kumon Math & Reading Center, Roanoke, TX* — Feb 2024 – Present
- Manage front desk operations, scheduling, and enrollment processes.
- Ensure high standards of coursework completion and correction.
- Support marketing initiatives and handle QuickBooks operations.

Theatre Member | *Cinemark Tinseltown, Grapevine, TX* — June 2022 – Jan 2024
- Provided excellent customer service, assisted with ticketing, and maintained supply stock.

Tutor | *Chelsea Hall, Southlake, TX* — Aug 2022 – May 2023
- Engaged students with various teaching techniques and provided feedback on their progress.
- Assisted in preparing students for exams and improving their performance through personalized study plans.