Yusuf Ali

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EDUCATION

Texas A&M University   **May 2027**

Bachelor of Science in Computer Science; Coursework: CSCE 120 - Program Design & Concepts   *College Station, TX*

- **Involvements:** TAMU Computing Society, TAMUhack, Aggie Artificial Intelligence Society, A&M Club Soccer

EXPERIENCE

Curriculum Developer & Instructor   **March 2022 – Present**

LearnToBot   *The Woodlands, TX*

- Teaching over 100 students how to build and code problem-solving robots in weekly camps.
- Designing and testing software/hardware projects for use in future camps and classes.
- Hosting robotics camps for *Destination Imagination* teams in our community.
  o Our *Destination Imagination* team placed 3rd in the [Global Finals 2023 competition](#).
- Partnering with my high school's robotics team to create volunteering opportunities within LearnToBot camps.

Administrative Assistant   **January 2021 – Present**

Muse Mantra School of Music & Arts   *The Woodlands, TX*

- Assisted in developing the school website (www.musemantra.com) and integrated the student registration form through Google Apps Script.
- Building a web application with the DW Spectrum & Pike13 APIs to streamline the student registration process.
- Organizing quarterly audits of the school database to analyze student enrollment and retention.

Robotic Surgery Intern   **June 2022 – July 2022**

Laredo Sports Medicine Clinic   *Laredo, TX*

- Developed machine learning algorithms for *Stryker Mako* surgical machines and worked with departments in the clinic including research and development, physical training, and marketing.
- Met with professionals involved in the biotechnology industry from Texas A&M International University.

PROJECTS

Nixie Tube Watch | *C++, C, PCB Design, Soldering*   **June 2023 – January 2024**

Objective: Build an analog watch from scratch using cathode ray Nixie tubes from the 1950s.

- Designed printed circuit boards to keep the form factor of the watch as compact as possible.
- Created a Qi standard charging module for the watch to charge wirelessly.
- Built the watch case using resin and CNC-cut glass.
- Programmed the time functions of the watch in C.

CVS Health Searcher | *Python, BeautifulSoup, Pandas, Web Scraping*   **August 2021 – November 2021**

Objective: Code a web-scraping bot that searches through CVS Health for articles matching specific keywords.

- Utilized Python's BeautifulSoup library to grab data directly from CVS Health

TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, C#, HTML/CSS, JavaScript, SQL
- **Development Tools:** Visual Studio, VS Code, PyCharm, GNU, AutoCAD, Blender, Ableton
- **Libraries:** Pandas, BeautifulSoup, NumPy, Matplotlib, PyTorch, Tweepy (Twitter API)
- **Awards:** UT Austin Computer Science Robotics Champion, NHSMUN Award of Distinction