

Bilal Shihab

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EDUCATION

Biomedical Engineering - Second Year

University of Texas at Austin

Related Courses: Circuits, Introduction to Programming, Introduction to Engineering Design

Graduation: May 2027

Austin, TX

High School Diploma

Lynbrook High School

June 2023

San Jose, CA

Courses

DeepLearning.AI Langchain course, CS50 Introduction to Computer Science

SKILLS

Programming Languages: Python, C++, and MATLAB

Tools/Technologies: Langchain, Data Structures, Algorithms, Jupyter Notebook, Android Studio/IntelliJ, Pandas, Git, Arduino

PROJECTS

Coder and Researcher at FOIL

UT Austin

09/23 - Present

Austin, TX

- Improved blood flow analysis during surgery by automating laser speckle contrast regulation using Arduino.
- Optimized the contrast adjustment script by rewriting it from MATLAB to Python, enhancing the system's efficiency.

Longhorn Neurotech

UT Austin

09/24 - Present

Austin, TX

- Collaborating on developing a machine learning model for Brain-Computer Interfaces (BCI) to control a prosthetic arm.
- Exploring various interpretability techniques to better understand and explain machine learning model outcomes.

Android Development Support

Bithunch LLC

05/24 - Present

Mountain View, CA

- Updated an Android application to the latest version, optimizing performance, resolving compatibility issues, and managing dependencies with Gradle. Integrated updated Crashlytics and Google Analytics libraries

College AI Project

Personal Project

07/24 - Present

San Jose, CA

- Developing an AI chatbot with Langchain and Retrieval-Augmented Generation (RAG) to assist students in selecting majors and colleges, leveraging Vertex AI for improved model performance.
- Enhancing user experience by implementing a Google Cloud database of colleges and their popular majors.

EXPERIENCE

Math Instructor

Mathnasium

04/22 - 06/23

Mountain View, CA

- Mentored grade school students in math, helping them understand and appreciate various concepts.
- Helped resolve conflicts among students and employees, promoting a collaborative workplace.

Member of Biomedical Engineering Society (BMES)

UT Austin

08/23 - Present

Austin, TX

- Led the design of the 2023 BMES Case Competition, formulating the challenge and guidelines.
- Worked collaboratively with a team to develop an engaging competition prompt.