

# ADEEB MOMIN

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## EDUCATION

### Texas A&M University

Aug 2022 – May 2026

*Bachelor of Science in Computer Science, Minor in Psychology — GPA: 4.0*

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Linear Algebra, Program Design & Concepts, Discrete Mathematics, Intro to Computer Systems, Foundations of Software Engineering, Database Systems

## EXPERIENCE

### Machine Learning Undergraduate Researcher – Texas A&M Department of Engineering

June 2024 - Present

- Led a research project focusing on neural networking, resulting in a 25% improvement in the accuracy of AI model responses
- Utilized Python, Google AI Studio, and Gemini API to fine-tune a LLM with a dataset of over 1000 entries, enhancing the model's performance and reliability
- Conducted data preprocessing and model validation, ensuring robustness of the model

### Web Developer – Rapid Concrete Services

June 2024 - July 2024

- Remodeled company website using HTML, CSS, and JavaScript to create a more user-friendly interface, effectively increasing business inquiries by 50%
- Leveraged JavaScript libraries and responsive web design to ensure compatibility across multiple platforms and devices
- Implemented SEO best practices to improve the website's search engine ranking and visibility

### Software Engineering Fellowship – Headstarter AI

July 2024 – September 2024

- Developed 5+ AI projects within a team utilizing Next.js, MUI, OpenAI API, Stripe API, Pinecone, and Firebase
- Participated in weekly hackathons and professional development events hosted by leaders of top companies
- Collaborated on project planning, code reviews, and debugging, ensuring high-quality and efficient code delivery

### Teaching Assistant – Texas A&M Department of Computer Science

August 2023 - Present

- Conducted weekly tutoring sessions, successfully assisting over 100 students in mastering coding fundamentals with Python and C++
- Worked in a team to assess and oversee weekly labs for 25+ students, grade exams, and additional coursework evaluation
- Monitored a discord server to provide real-time assistance, feedback, and mentoring, enhancing students' learning experiences and performance.

## ACADEMIC AND PERSONAL PROJECTS

### TIC Chatbot | React, Node.js, Python, CSS, Gemini API, Google AI Studio, Flask, Firebase

June 2024

- Built a Full Stack chatbot enabling users to utilize a fine-tuned model for industry specific tasks, trained on a dataset of over 1,500 lectures
- Utilized Python backend to send and receive responses from Gemini API, storing these responses in Firebase
- Created front-end using React and CSS for a more user-friendly experience, facilitating easy interaction with the chatbot
- Planned to be used in Dr. Hsieh's classes at Texas A&M University for further testing and development

### Satisfaction Scanner (HowdyHack) | Python, OpenCV

September 2023

- Developed software utilizing camera input to identify and categorize user emotions into satisfied, unsatisfied, and neutral, using Power BI for data storage
- Collaborated in a 24-hour team effort to develop functional software, utilizing machine learning techniques and Git
- Employed Python and libraries like PyQt5 for a user-friendly interface and OpenCV for facial recognition software

## LEADERSHIP EXPERIENCE AND ACTIVITIES

### Aggie Coding Club – Member

August 2022 – Present

- Member of startup called Rogo, utilizing C++ and Arduino to create a competitor for gym tyrant Peloton
- Participated in workshops to expand knowledge of programming.

## ADDITIONAL INFORMATION

**Computer Skills:** Proficient in Python, Java, MATLAB, Git, C/C++, HTML, CSS, JavaScript, React, API, Linux

**Certifications:** OSHA 10, Revit, Autodesk Inventor

**Interests:** Pickleball, Reading, Cars, Gaming, Movies, Volunteering, Travel/Hiking, Legos, Cooking