

Mahboob Shah Abrahimi

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EDUCATION

Virginia Tech

B.S. in Computer Science

Blacksburg, VA

May 2026

- **Concentrations:** Software Engineering/Artificial Intelligence
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

SKILLS

Programming: Java, Python, HTML/CSS, MATLAB, C, SQL, Python, LangChain, LangGraph, OpenAI API

Tools: Visual Studio, Android Studio, IntelliJ, Eclipse, Git, Lightroom

EXPERIENCE

Languex LLC

Reston, VA

Front End Intern

May 2024 – Aug 2024

- Collaborated with clients and design teams to translate **wireframes and mockups into functional web pages**.
- Built and styled **responsive, user-friendly interfaces** using **HTML and CSS**, with attention to detail, and accessibility.
- Built **Python (Flask/Django)** to connect front-end layouts with back-end data and deliver dynamic web content.
- Resolved **website issues and bugs**, strengthening overall reliability and user satisfaction.
- Collaborated with a team to streamline the process and ensure high-quality results. (// add impact for this internship experience. // add right keywords to boost ATS score.)

PROJECTS

Sign Language Detection With Text To Speech (Hackathon)

Sep 2024

- Developed a sign language detection system using LSTM (Long Short-Term Memory) networks, OpenCV, and TensorFlow, enabling real-time gesture recognition and text-to-speech conversion.
- Implemented keypoint extraction with MediaPipe, built and trained a sequence-based LSTM model, and evaluated accuracy using a confusion matrix, ensuring effective classification of hand gestures for sign language interpretation.

AI Learning Project

- An AI-powered learning tool that gives students a custom experience by adjusting lessons to their learning style and pace. It can also act like a simple tutor, answering questions and guiding users through material.
- Created a tool using **AI** to give students a **custom learning experience** based on their learning style and speed.
- Built easy-to-use web pages with **HTML, CSS, and Python** to show lessons and content.
- Added simple **AI chat features** so students could ask questions and get help like a tutor.
- Focused on making the tool **easy to use and accessible** so it works for different kinds of learners.

AI Learning Project

- Built a command-line AI assistant that can perform calculations and respond to user queries using OpenAI's LLMs. Integrated tools such as a calculator to demonstrate tool-augmented agent behavior.
- Integrated tools such as a calculator to demonstrate tool-augmented agent behavior.
- Used LangChain and LangGraph to structure agent logic
- Integrated OpenAI's API with secure key management

ACTIVITIES AND LEADERSHIP

Afghan Student Association VT (Event Coordinator)

Blacksburg, VA (2024 – 2025)

- Hosted events, helped manage a board of executives, and reached out to the underprivileged community in Blacksburg.

LSSNCA (Lutheran Social Services) Event Coordinator

Fairfax, VA

- I volunteered with LSSNCA to support Afghan refugees by providing translation services, helping them complete asylum forms, and guiding newly arrived youth on how to continue their education in the U.S.