

# Syed Ahthesham Ali

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## EDUCATION

### University of Mount Union

Bachelor of Science in Computer Science, Minor in Psychology

Alliance, OH

May 2024

## WORK EXPERIENCE

### Full Stack Web Developer - Part Time

March 2024 – Present

American Muslim Center Dearborn

Remote

- Created an event booking website using NextJS, MongoDB, Clerk, and StripeAPI to streamline registration, strengthen community bonds and address social health concerns for **800+ members**
- Foster a positive learning environment by creating an interactive NextJS Quiz app for **summer school children**
- Collaborated with IT to implement user-centric features, aiming to **increase website traffic by 10-20%**

### Incoming Software Engineering Fellow

July 2024 – Present

Headstarter AI

NY, Hybrid

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by **1000 users**
- Develop projects from design to deployment leading 4+ engineering fellows using **MVC design patterns**
- Coached by **Amazon, Bloomberg, and Capital One** engineers on Agile, CI/CD, Git and microservice patterns

### Programming and Math Tutor

Jan 2022 – Dec 2023

University of Mount Union

Alliance, OH

- Provided comprehensive one-on-one and group tutoring sessions in programming languages such as Java, SQL, C#, Swift, and Math courses, resulting in an **average grade improvement of 30%**

### Software Engineer

September 2022 – April 2023

ACBSP in VR Technologies - Startup

Alliance, OH

- Tasked with creating a VR action game in Unity to study psychological behavior and **improve research studies**
- Constructed a VR action game in Unity using C# and Oculus SDK, potentially targeting the **prefrontal cortex to reduce user stress and anxiety by 30%**, through strategic enemy dismemberment scenarios

### IT Technician Intern

Dec 2021 – May 2022

East Lansing Modern Dental

East Lansing, MI, Hybrid

- Improved overall **operational efficiency by 20%** across multiple branches, through implementing network configurations and Dentrix Ascend software for improved dental imaging for the doctors
- Maintained 99.9% uptime for critical systems by providing remote support for **100+ staff** and recovering lost data

## PROJECTS

### WaveWallet GrizzHacks 6 Hackathon Winners | C++, Python, NextJS, Tailwind CSS, TypeScript

[Devpost](#)

- Winners of the Best UI/UX award** among 30+ teams at GrizzHacks by developing a local offline crypto wallet application using NextJS, Tailwind CSS, and TypeScript
- Integrated MetaMask, Web3.js, and Ethers.js for secure crypto transactions, connecting to Arduino RF for offline local crypto exchange through radio frequency

### ScribeMate Google AI Hackathon | NextJS, Tailwindcss, TypeScript, Google Gemini AI

[Devpost](#)

- Developed ScribeMate, a Gemini AI-powered marketing copywriting tool, **achieving 97.6% accuracy** in content generation using NextJS, Tailwind CSS, Gemini 1.5 Pro API and TypeScript
- Leveraged Gemini 1.5 Pro API to improve content accuracy and quality through iterative prompt refinement

### AI Plays Flappy Bird Using NEAT-Python | Python, Pygame, NEAT-Python

[GitHub](#)

- Engineered an AI that learns to play Flappy Bird using NEAT-Python, achieving adaptive and evolving gameplay
- Enhanced AI training with real-time neural network visualization, fitness tracking, and speciation insights

## TECHNICAL SKILLS

**Programming Languages:** Java, C++, Python, JavaScript, C#, Swift, SQL, MongoDB, HTML, CSS, LaTeX

**Frameworks & Libraries:** NextJS, React, TypeScript, NodeJS, TailwindCSS, Spring, ASP.NET, Flask, Svelte

**Tools & Platforms:** AWS, GCP, Git, CI/CD, REST API, Unity, Figma, Wireshark Linux, Metasploit