Syed Ahthesham Ali

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EDUCATION

University of Mount Union   Alliance, OH
Bachelor of Science in Computer Science, Minor in Psychology   *May 2024*

WORK EXPERIENCE

Full Stack Web Developer   March 2024 – Present
American Muslim Center Dearborn   *Dearborn, MI - Remote*
- Expanded community reach from 800+ to potentially **1000+ members** by developing an event booking website using NextJS, MongoDB, Clerk, and StripeAPI, streamlining registration and addressing social health concerns
- Created an interactive Quiz app with **NextJS, Sanity.io, and MongoDB** for summer school children and implemented engaging features such as leaderboards, increasing student engagement through gamified education

Software Engineering Fellow   July 2024 – Present
Headstarter AI   *NY, Hybrid*
- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 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

Computer Science and Mathematics Tutor   Jan 2022 – Dec 2023
University of Mount Union   *Alliance, OH*
- Improved grades of 90% of tutored students from failing grades of 55% to high achievers **85-90%** within a semester by tutoring in Systems Programming, Data Structures, Algorithms, and Mathematics
- Analyzed and debugged code in Java, C#, Swift and SQL using IDE tools and debugging techniques, while teaching key mathematical concepts such as calculus, linear algebra, and statistics resulting in a **35%** grade increase

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, **improving research studies**
- Constructed a VR action game in Unity using C# and Oculus SDK, 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 Lancing Modern Dental   *East Lansing, MI, Hybrid*
- Increased operational efficiency by **20%** for 150+ staff across multiple branches by implementing network configurations, providing remote support, and optimizing Dentrix Ascend software for improved dental imaging

PROJECTS

TradeWise | *NextJS, TailwindCSS, TypeScript, Llam3.1 70B-Groq API, TradingView API*   Github
- Accumulated **2,000+ users** by engineering TradeWise, an AI-driven financial assistant using NextJS, TypeScript, and TailwindCSS, providing market insights, interactive charts, and real-time financial data
- Integrated advanced features like TrendSpotter, StockX-Ray, and CandleForge with **Llama3.1-70B-Groq API**, **TradingView API**, and **Shadcn UI**, delivering lightning-fast, precise analysis across global markets

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

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, GO, C#, Swift, Kotlin, SQL, MongoDB, HTML, CSS
Frameworks & Libraries: NextJS, React, TypeScript, NodeJS, TailwindCSS, Spring, ASP.NET, Svelte, Flask
Tools & Platforms: AWS, GCP, Git, CI/CD, REST API, Unity, Figma, Wireshark Linux, Metasploit