

Ayman Agharbi

▪ Harlingen, TX 78550 ▪ (956) 970-2969 ▪ ayman.agherbi01@outlook.com

SKILLS

Communication: Excellent Written and Verbal Skills | Collaboration | Empathy
Technical Skills: Software Development | Data & Code Analysis | Problem-Solving | Troubleshooting
Languages: C++ | Python | JavaScript
Tools & Platforms: Visual Studio Code | GIT | AWS | Linux | Windows

EDUCATION

The University of Texas Rio Grande Valley Edinburg, TX
Bachelor of Science in Computer Science May 2023

Awarded:

Defense Intelligence Agency UTSA IC CAE Critical Tech Scholarship

Relevant Coursework:

Algorithms & Data Structures (C++) | OOP in Python | Linux/Unix Environment (Bash Script & Python) | Machine Learning (Python & AWS) | Database Design & Implementation (Bash Script, Python, AWS) | Automata | Software Engineering | Digital Image Processing (Java)

PROJECTS

Portfolio Website www.agharbi.com Harlingen, TX

Tools: JavaScript (React.js, Node.js, Next.js, Tailwind) | Visual Studio Code | NPM | GIT | AWS July 2023 - Current

Designed and developed a responsive, dynamic portfolio website that showcases my skills, projects, and experiences as a full-stack developer. Leveraging the power of Next.js and React.js, I implemented various interactive components and a user-friendly navigation structure, resulting in a seamless browsing experience. Constantly updating the website to optimize and strengthen UI/UX.

Minicraft Reinforcement Learning Edinburg, TX

The University of Texas Rio Grande Valley Aug 2022 – Dec 2022

Tools: Git | Jira | Python | TensorFlow | Isaac Gym | NumPy | Matplotlib | Malmö

Led a team of four to fine-tune models to perform tasks using an existing VPT model. Designed and implemented a behavioral cloning and classification model to predict positive and negative behavior. Developed a gym environment using Malmö and Gym with resolution filters to improve performance from **4-7 FPS** to **20 FPS**. Evaluation of the model improved from **10 percent** to **~93 percent** at submission.

RELEVANT WORK EXPERIENCE

Texas State Technical College Harlingen, TX

Work-Study: Learning Coach, I Oct 2022 – Current

- Collaborated with instructors and administration to develop strategies for student success
- Guided students through individualized coaching, mentoring, and technical support to **26** students each semester
- Developed a Python script to filter through Excel sheet data to reduce the number of entries from **~5000** to **~200**

The University of Texas Rio Grande Valley Harlingen, TX

Work-Study: Computer Science Teacher's Assistant & Cybersecurity Project Support Jan 2020 – May 2020

- Guided **2 groups** of **12 students** to achieve a **C or higher** in Computer Science II and Database Design & Implementation
- Hosted demonstrations for **3 projects** and **1 research paper** to over **32 students** and **8 professors**

Texas State Technical College Harlingen, TX

Work-Study: Peer Math Tutor Jan 2016 – May 2019

- Collaborated with **8 instructors** and **5 administrators** to develop strategies to ensure success of students
- Provided individualized tutoring to over **200 students** per semester to help them overcome academic challenges and achieve a **C or higher** in their mathematic courses

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REFERENCES

Norma Salazar

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Supervisor, Pre-Technical Studies Advisor

Texas State Technical College

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