

Ibrahim Mirza

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PROJECTS

Pathfinder Visualizer

Orlando, Florida

C++, SFML

March 2025 - Present

- Visualize A* and BFS algorithms through real-time grid animations, terrain-based costs, and interactive user controls to enhance understanding of pathfinding logic
- Implement Dijkstra's algorithm and custom BFS logic, achieving 100% accuracy in shortest-path routing while factoring in terrain difficulty

Stock Predictor

Orlando, Florida

Python, Machine Learning

Jan 2025 - June 2025

- Achieved 65%+ accuracy in stock price forecasting using XGBoost and financial indicators
- Automated data collection and preprocessing from X API, and visualized sentiment analysis results to provide actionable insights

AI Resume Analyzer

Orlando, Florida

Python, Flask, NLP

Dec 2024 - Feb 2025

- Achieved 85%+ accuracy in resume-job description similarity matching using BERT embeddings.
- Implemented real-time resume analysis with automated skill extraction, job matching, and AI-generated recommendations.

Stock Portfolio Tracker

Orlando, Florida

Java, APIs, GUI Development

March 2024 - August 2024

- Built a Java-based stock portfolio tracker that lets users add holdings and automatically calculates real-time profit and loss
- Integrated a real-time stock price API and developed a GUI table interface with precise decimal-based calculations for accurate portfolio valuation

SKILLS

C, C++, Python, Java, Kotlin, Node, React, JavaScript, SQL, HTML/CSS, Git, AWS, Linux, DevOps, Docker, MATLAB, Unit Testing, Microsoft Office, Microsoft Azure

Leadership & Involvement

Pakistani Student Association

Orlando, Florida

Events Director

May 2025 - Present

- Leading planning and execution of large-scale cultural events by managing budgets, timelines, and cross-functional student teams using Agile-style coordination and task delegation

Knight Hacks/Hackathon

Orlando, Florida

Researcher

June 2023

- Contributed to project research and collaborative brainstorming, supporting problem analysis and solution development in a fast-paced team environment

EXPERIENCE

Awaaz Entertainment

Orlando, Florida

Lead Technical Systems Specialist

May 2020 – Present

- Configure and maintain AV systems, servers, and network infrastructure for 50+ live events while leading and training junior technicians on setup, troubleshooting procedures, and live operational support
- Diagnose and resolve hardware, software, and connectivity issues in real time and program integrated audio-visual control systems, optimizing performance across audio, video, and networking components to ensure seamless events

EDUCATION

University of Central Florida

Orlando, Florida

Bachelor of Science in Computer Science, Minor in Mathematics

Expected August 2026

- **Achievements:** Presidents List, Deans List
- **Related Coursework:** Data Structures & Algorithms, Machine Learning, Artificial Intelligence, Systems Software, Cryptography