

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
- Achieve 100% accuracy in shortest-path routing with Dijkstra and custom BFS logic, factoring in terrain difficulty and traversal cost

Stock Predictor

Orlando, Florida

Python, Machine Learning

Jan 2025 - Present

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

AI Resume Analyzer

Orlando, Florida

Python, Flask, NLP

Dec 2024 - Present

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

SKILLS

C, C++, Python, Java, Kotlin, Node, JavaScript, HTML/CSS, UI/UX, Git, AWS, Unix, Eclipse, Linux, DevOps, Microsoft Office

EXPERIENCE

Awaaz Entertainment

Orlando, Florida

Lead AV Technician

May 2020 – Present

- Configure and maintain AV systems, projectors, laptops, and networking devices for 50+ live events
- Troubleshoot hardware, software, and connectivity issues to ensure minimal downtime during presentations
- Program and operate audio-visual control systems, optimizing performance for seamless live events

EDUCATION

University of Central Florida

Orlando, Florida

Bachelor of Science in Computer Science, Minor in Mathematics

Expected August 2026

- o **Related Coursework:** C Programming, Object-Oriented Programming, Security in Computing, Calculus II-III, Physics w/ Calculus II, Data Structures & Algorithms I, Differential Equations, Computer Logic & Organization Discrete Structures I, Mobile Software Development, Cryptography & Information Security, Data Structures & Algorithms II, UCF Foundation Exam, Matrix & Linear Algebra, Algorithms for Machine Learning

Valencia College

Orlando, Florida

Associate in Arts in General Studies

Aug 2020 - May 2023

- o **GPA:** 3.89/4.00, *President's List*
- o **Related Coursework:** Calculus I, Physics w/ Calculus I

Leadership & Involvement

Pakistani Student Association

Orlando, Florida

Events Director

May 2025 - Present

- Design and execute high-impact cultural events by developing detailed timelines, managing budgets, and coordinating cross-functional student teams.
- Utilize project management tools and collaborative workflows to streamline event planning and delegate responsibilities efficiently.

Knight Hacks/Hackathon

Orlando, Florida

Researcher

June 2023

- Conducted research to gather information relevant to the project's objectives
- Participated actively in brainstorming sessions and contributed innovative ideas and solutions