IBRAHIM RATHWALA

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SUMMARY

Third - year Computer Science student at Heriot-Watt University Dubai with a strong interest in data-related roles. Seeking an internship to gain practical experience, apply analytical skills, and contribute to data-driven projects.

EDUCATION

Heriot-Watt University   **Dubai, UAE**
Bachelor of Science: Computer Science(Artificial Intelligence)(Hons)   *September 2022 - Present*
GPA – 4.0
Modules Include -

- Data structures and algorithms
- Programming Languages
- Hardware Software Interface
- Software Engineering
- Web Programming
- Database Management Systems
- AI and Intelligent Agents
- Data Communications and Networking

EXPERIENCE

Research Associate | WattMUN 2024   **Dubai, UAE**
Heriot Watt University   *January 2024 – Present*

- Actively collaborated with the WattMUN 2024 executive research team to create well-structured agendas and comprehensive background materials.
- Organized training sessions, imparting valuable insights on policy research methodologies, diplomatic strategies, and effective communication.

SKILLS

- **Programming languages –** Python , Java, C, R, Prolog, Flutter, Javascript
- **Frameworks –** TensorFlow , Scikit Learn, Pytorch
- **Version Control -** Git
- **Operating System –** Windows , Linux
- **Professional –** Teamwork**,** Problem Solving, Research

PROJECTS

Brainwave: A Collaborative Brainstorming Platform

o Fosters real-time brainstorming and idea exchange through socket.io messaging and collaborative tools like a whiteboard and document annotation.
o Built on a robust foundation of React.js (frontend) and Node.js (backend) for a dynamic and user-friendly experience.
o Developed the Virtual Exhibits Feature which allows user to showcase their work and also worked on the responsiveness of the app.

Mastermind Game

o Designed and developed a physical Mastermind game using a Raspberry Pi, integrating LEDs, buttons, and an LCD screen. Employed C and ARM assembly for input processing, game logic, and visual feedback.

Tic Tac Toe

o Constructed a Tic-Tac-Toe game environment with Markov Decision Processes (MDPs), training AI agents using Value Iteration, Policy Iteration, and Q-learning for strategic gameplay.

Blood Bank Database Management System

o Built a comprehensive Python and MySQL system to effectively store, retrieve, and manage donor and recipient information.

AWARDS

Deputy Principal's Award 2023
Awarded Academic Excellence Award in recognition of outstanding scholastic performance, achieving Grade A in 6+ undergraduate courses.

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AI-900)
- Coursera: Machine Learning Specialization

ADDITIONAL INFORMATION

- **Interests:** Cricket**,** Swimming, Reading, Exploring
- **Languages:** English , Arabic, Urdu, Gujarati, Hindi
- **Events Participated:** World 3D Printing Championship, Dubai Customs IPR Awards, First Lego League, COP 28
- **License:** UAE Driving License