

# Ramez Ehab

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## EDUCATION

### Misr International University

*Bachelor of Computer Science, Major in Artificial Intelligence. GPA: 3.49*

Cairo, Egypt

Oct. 2021 – Present

### New Ramses College

*IGCSE, 99.4%*

Cairo, Egypt

Sep. 2009 – June 2021

## EXPERIENCE

### Charge Support Intern

Jul. 2024 – Aug. 2024

*Vodafone*

*Smart Village, 6th October City, Egypt*

- Gained a comprehensive understanding of Ericsson's solutions for charging servers, including components such as SDP and AIR
- Participated in a mini hackathon event, collaborating with team members to develop innovative solutions
- Attended various training sessions on work-life balance, personal branding, and transitioning from student to employee

## PROJECTS

### Virtual Mouse | *Python, Kivy, OpenCV, MediaPipe, TensorFlow, SQLite*

May 2024 – Jun. 2024

- Created a virtual mouse system controlled by hand gestures, enabling movement, dragging, clicking, and scrolling.
- Leveraged Kivy for UI and OpenCV with MediaPipe for hand-tracking.
- Used TensorFlow for gesture recognition.

### Bitcoin Price Prediction | *Random Forest, SVR, XGBoost, ARIMA, Prophet*

May 2024 – Jun. 2024

- Built a time series prediction model for Bitcoin prices using multiple machine learning models.
- Applied Random Forest, SVR, XGBoost, ARIMA, and Prophet for predictions.
- Preprocessed data, trained models, and evaluated results using  $R^2$  and MAPE.

### Barcode Detector | *Python, OpenCV*

Oct. 2023 – Dec. 2023

- Applied pure image processing techniques for 1D barcode detection using Python and OpenCV.

### HST Risk | *React Native, Expo, Tailwind CSS, Node.js, Express, MongoDB, Socket.io*

Jul. 2024 – Sep. 2024

- Created a mobile app mimicking 'RISK', where teams compete for virtual countries using virtual money.
- Implemented real-time updates with Socket.io for player interactions.
- Designed a responsive UI with React Native and Tailwind CSS.

### Carmel California | *PHP, SQL*

Oct. 2023 – Dec. 2023

- Built a responsive web application for a Maadi-based coffee shop, featuring dynamic menus & customizable salads.
- Implemented an admin dashboard for managing users, products, and roles with customizable permissions.
- Utilized an Entity-Attribute-Value (EAV) database design pattern to efficiently handle flexible product attributes.

## ACTIVITIES & INTERESTS

### Writing

- Won 2nd place in the MIU English Short Story Competition 2023.

### Sports

- Member of Flicking Pharaohs, an Ultimate Frisbee team.

### Volunteering

- Member of Helio Sports Team.
- Focus Sports Camp 2023 & 2024 committee member.
- Team Leader in multiple Sketch Youth & Sketch Juniors Sports Camps.

## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript, HTML/CSS, SQL, PHP, Java

**Frameworks & Tools:** React, React Native, Node.js, Tailwind CSS, OpenCV, Kivy

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm

**Libraries:** pandas, NumPy, Matplotlib, TensorFlow, MediaPipe