Ramez Ehab

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Education

Misr International University — Cairo, Egypt
Bachelor of Computer Science, Major in Artifical Intelligence. GPA: 3.44 — *Oct. 2021 – Present*

New Ramses College — Cairo, Egypt
IGCSE, 99.4% — *Sep. 2009 – June 2021*

Experience

Freelance Developer — Sep. 2024 – Present
Upwork — *Remote*

- Developed websites, mobile applications, and desktop applications for clients using technologies such as React.js, Firebase, Node.js, Kivy, and Electron.js, ensuring efficient performance and responsiveness across different devices
- Providing ongoing technical support, maintaining a 5-star client feedback rating

Freelance AI Coding Contributor — Oct. 2024 – Present
Outlier AI — *Remote*

- Evaluate and refine AI-generated code, technical responses and API calls for large language models, enhancing accuracy and performance
- Develop challenging prompts to intentionally push AI models to failure, facilitating improvements in learning and problem-solving abilities

Charge Support Intern — Jul. 2024 – Aug. 2024
Vodafone — *Smart Village, 6th October City, Egypt*

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

Projects

Motion Lab (Graduation Project) | *React.js, Python, Flask, MediaPipe, PyTorch, SQLite* — Sep. 2024 – Present

- Developing a web application to extract face, hand, and body motion data from input videos, supporting multiple persons and converting the data into the BVH (BioVision Hierarchy) format for animators and game developers
- Presenting the generated BVH data as a skeleton visualization through a user-friendly web interface, enabling further manipulation
- Developing a Blender plugin to streamline Motion Lab usage for animators, improving workflow efficiency

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
- Utilized React Native with Tailwind CSS for a responsive UI and implemented real-time updates with Socket.io

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, OpenCV with MediaPipe for hand-tracking and 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

Barcode Detector | *Python, OpenCV* — Oct. 2023 – Dec. 2023

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

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 and Focus Sports Camp 2023 & 2024 committee member

Technical Skills

Languages: Python, C++, JavaScript, HTML/CSS, SQL, PHP, Java
Frameworks & Tools: React.js, React Native, Node.js, Electron.js, Firebase, Tailwind CSS, OpenCV, Kivy
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm
Libraries: pandas, NumPy, Matplotlib, TensorFlow, MediaPipe