

# Ibrahim Mohamed

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## EDUCATION

### Cairo University

Sep 2019 –

Jul 2024

- *Bachelor of Engineering: Systems & Biomedical Engineering; GPA: 3.49/4*

Minor: **Software & Data Science Engineering**

- **Undergraduate Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Databases, Microcontrollers, Computer Graphics, Computer Vision, Probability and Statistics, Machine Learning, Digital Signals Processing

## SKILLS

- **Programming Languages:** Java, C++, JavaScript, Python, & C
- **Front-End:** HTML, CSS, jQuery, ReactJS, UI/UX
- **Desktop Applications:** Qt6, JFrame, ElectronJS
- **General Concepts:** Data Structures, Algorithms, Object-Oriented Programming, DevOps, Scrum
- **Operating Systems:** Windows, Linux (Ubuntu)
- **Hardware:** AVR, ARM Interfacing, ROS
- **Back-End:** NodeJS, Django, Flask
- **Databases:** MySQL, MongoDB
- **Version Control:** Git/GitHub
- **Tools:** Docker, Kubernetes

## PROJECTS

- **Desktop Banking System**  
*Java, Swing, OOP*
- **Operation Rooms Department Manging System**  
*JavaScript, React, NodeJS, MongoDB*
- **Medical Equipment Repair VR Game**  
*C#, OOP, Unity, Oculus Integration, VR*
- **Computer Vision Toolkit**  
*Qt C++, OOP, Computer Vision & Image Processing*
- **Digital Filters Design Suite**  
*JavaScript, Python, Django, OOP, DSP*
- **Desktop Paint Application**  
*Qt C++, OOP, Data Structures*
- **Video Call Application**  
*JavaScript, webRTC, Networking*
- **Signals Sampling Studio**  
*JavaScript, Python, Flask, DSP*
- **Voice Fingerprint System (Alexia-Like)**  
*JavaScript, ReactJS, Django, Python, DSP*
- **Real Estate Website**  
*JavaScript, NodeJS, MongoDB*

## TRAININGS & INTERSHIPS

- **Neureveal Inc.**  
*AI Software Engineer Intern* Aug 2023 – Present
- **First Gulf Solutions**  
*Frontend Software Engineer intern* Aug 2022 – Present
- **Information Technology Institute (IT)**  
*UI/UX Design Intern* Aug 2021 – Oct 2022

## COURSES

- **Object Oriented Programming in Java (Specialization):** [Duke University \(Coursera.com\)](https://www.coursera.org/learn/object-oriented-programming-in-java)
- **Machine Learning: IBM Machine Learning Professional Certificate:** [IBM \(Coursera.com\)](https://www.coursera.org/professional-certificates/ibm-machine-learning), **Machine Learning**, [Stanford University](https://www.coursera.org/learn/machine-learning)
- **Algorithms, Data Structures & Graphs:** [UC San Diego \(Coursera.com\)](https://www.coursera.org/learn/algorithms-and-graphs)
- **VR/AR Game Development Diploma:** [412Labs & US Embassy in Cairo](https://www.412labs.com/)
- **IBM DevOps & Software Engineering Professional Certificate (4/12):** [IBM \(Coursera.com\)](https://www.coursera.org/professional-certificates/ibm-devops)

## VOLUNTEERING EXPEREINCE

- **Head of Autonomous Driving**  
Cairo University Racing Team
- **Ex Vice-President**  
CUFE Student Club
- **Ex-Chairman**  
IEEE Cairo University SB
- **Branding Director**  
IEEE Region 8 North Africa SYP Congress 2023

## AWARDS & HONORS

- **Second Place**, 6th Undergraduate Engineering Mathematics Research Forum - Cairo University
- **Second Place**, Geniuses Student Competition - Faculty of Engineering Cairo University
- **Participant**, IEEE Xtreme (Problem Solving Competition)