

Ahmed B. Elsherif

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EDUCATION

Alexandria University

Aug. 2018 – Current

Faculty of Engineering, Computers and Systems Engineering Department

- GPA: 3.89
- Class Rank: 3rd

Damanhour Secondary School

Sep. 2015 – July 2018

Egypt National Examination (Thanawwya Amma)

- Percentage: 98.78%
- Math Section District 3rd Rank

ACHIEVEMENTS & EXTRACURRICULARS

- Participated in Egyptian Collegiate Programming Contest 19'
- 5th place in Alexandria University Collegiate Programming Contest 19', participated in 20'
- 4th place in MATE ROV Arab Regional Contest 19'
- 2nd place in Underwater Robotics Games 20'
- Participated in Google Hash Code, Google Code Jam, and COVID 19 EgyHackathon

EXPERIENCE

Software Engineer and Mentor

Sep 2018 – Present

Torpedo ROV Team

- Developed a GUI using Visual C# to help pilot and copilots do missions
- Developed a server client-architecture that connects ROV with control unit and the Arduino code to control ROV
- Developed the computer vision functionalities that help ROV autonomously detect features and act accordingly
- Prepared and gave lectures on software topics such as computer vision, image processing, machine learning, and some algorithmic techniques

PROJECTS

Local Mail Server | *Springboot, Vue 3, Bootstrap*

(Team Project)

- A mailing service where users can send and receive emails locally
- Users can organize emails in custom folders
- Users can make different queries on data which is stored as files on the server

MeowApp | *Express.JS, Passport.JS, MongoDB*

Current

- A RESTful API for a small social network replica with basic functionality such as posts and comments and friends with OAuth authentication system

Dogs vs Cats App | *Keras, Flask*

- Trained a convolutional neural network trained on Kaggle dogs vs cats dataset with a 93% accuracy
- Developed a Flask web app that enables users to upload images and get predictions

Linear Algebra Calculator | *Javascript, Plotly, Bootstrap*

- Developed a library that calculates the linear transformation of vectors and polygons in 2D space
- Used Plotly to animate the transformations such as rotations, translations, and scaling

TECHNICAL SKILLS

Languages: C/C++, Python, Javascript, Java, C#, Mathematica, HTML/CSS

Frameworks: Node.js, Express.js, React, Vue 3

Developer Tools: Git, VS Code, Visual Studio, PyCharm, Eclipse

Libraries: OpenCV, NumPy, SciPy, Matplotlib, Scikit Learn, Scikit Image, Keras

Database Systems: MongoDB, MySQL