Hazem Fahmi

Profile

Solution- and detail-oriented. An aspiring and ever-learning polymath/artist. Practicing leadership through ownership and compassionate team-playership. I use my skills in serving the public good and advancing sustainability.

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Work Experience

- **Junior ML Engineer - Omdena**   Sep'21-Present
- Predicting Plant Health with drone data.
- **Backend Intern - nandbox**   Sep-Oct 2020
- Initiated a redesign of the chatbot API, and built a prototype.
- Built chatbots.
- **Frontend Intern - Travco Group** Sep-Oct'19
- Coded web pages on new products' web pages using HTML, CSS and JavaScript.

Education

B.Eng. Computer Engineering 2021
CGPA: 3.43/4.0

Skills & Tools

- QGIS, Python Geospatial Tools
- C, C++, Java, Python, JavaScript, Git, Bash, SQL
- OOP
- Hadoop, MapReduce
- Web Full Stack: HTML, CSS, Node, Express, MongoDB, React, Docker
- ML: PyTorch, OpenCV, sklearn, NumPy, Pandas
- NLP with Deep Learning

Military Status   Exempted

Extracurricular Activities

- Projects Directorate Member, Enactus Cairo'20
  - 2x Member of the Month.
  - Led a team in the late ideation phase.
- Semi-Finalist, Shell Imagine The Future 2020
- Culture Workshop Participant, ISLC'17, AUC

Hobbies and Interests

- Music
- Singer-Songwriter at Lone Friend
- Frontman of Radiohead Tribute Band "The Bends" (2018-2019)
- In love with the piano.
- Making • Music Hardware • The Outdoors

Projects

- **Grad. Project - flux.ai**
- Brief Description
  Flux processes online meeting transcripts using state-of-the-art neural NLP models to extract action items and decisions and summarize them.
- Highlights
  - Learned and implemented modern neural architectures such as Seq2Seq, GCN and TCN, Transformer.
  - Developed deep understanding of PyTorch.

- **Optical Music Recognition**   *(OpenCV, skimage, NumPy)*
- Combined methods from research papers and created unique methods for our dataset.

- **Spotify Clone**   *(Node, Express, MongoDB)*
- Simulation of real-life development environment with team of 20 Members.
- Worked in backend sub-team to develop the API

- **Spotify Recommendation System**   *(Hadoop, Pandas, Dask)*
- Used both Pandas and Dask for processing Gigabytes of Data
- Utilized Hadoop MapReduce for producing recommendations.

- **Search Engine** *(Java, Node, React, HTML, CSS)*
- Serves 5GB of crawled data.
- UI with React. - Backend with Java Spring Boot.

- **Gun-Fight Game Sim.**   *(x86 Assembly)*
- Applied code maintenance best practices.

Key Passions

- Sustainable and Fair Economy
- Ecological Regeneration
- Urban Sustainability