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Amgad Mansour

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Selected Projects

- Music recommendation web application based on facial emotion detected with a deep learning model. (Java, SpringBoot, Maven, JavaScript, HTML, CSS, MongoDB)
- Implemented a blockchain cryptocurrency simulation system. (Java)
- Implemented a neural network and data mining models for ranking a search engine article popularity in information retrieval. (Python, Chainer, NumPy)
- Developed a card game including a graphical user interface. (Java, JavaFX)
- Machine Learning text comprehension deep learning model based on Google Bert. (Python, PyTorch)
- A robust geodemographic segmentation model for bank churn analysis. (Python, SQL, SSIS, gretl, Tableau)

Education

Vancouver, CA **Simon Fraser University** **Sep. 2018 - May 2020**

- M.Sc. in Computer Science, GPA: A.
- Relevant Coursework: Machine Learning, Data Structures and Algorithms, Data Mining, Computer Vision, Multimedia Systems

Cairo, Egypt **German University in Cairo** **Sep. 2013 – May 2018**

- B.Sc. in Information Engineering and Technology, GPA: A+.
- Relevant Coursework: Discrete Math, Probability & Statistics, Linear Algebra, Computer Programming, Computer Networks, Cloud Computing.

Experience

Software Engineer, Researcher **Huawei-SFU Lab, Vancouver** **Sep 2018 - May 2020**

- Designed and implemented a computer vision algorithm for video reflection removal using motion cues to be applied in photography and self-driving cars.
- Submitted paper in ACM MMSys 2020.

Software Engineer, Intern **Fraunhofer HHI, Berlin** **March 2017 - Aug. 2017**

- Built a link level simulator for a non-orthogonal multiple access scheme proposed for 5G networks.
- Received a very positive review on my work and skills, Recommendation: goo.gl/DAa4f8.

Software Engineer, Intern **IoT Lab, GUC** **June 2015 - Aug. 2015**

- Implemented the navigation algorithm for an indoor navigation android application to help students navigate inside the university campus.

Leadership and Awards

- **Top 10 (out of 200 students)** in my undergraduate degree.
- **Top 20 (all over Egypt)** in Egyptian Mathematics high school.
- **Ranked first in Facebook Research machine learning challenge (MovieQA)** for highest performing model. link: shorturl.at/eAOS6, team name: ML-SFU.
- **Graduate teaching assistant** for the database course, Simon Fraser University.
- **Completed Foundations of Leadership** program by Student Engagement at SFU.
- **Best marketing team member** at Nawwar, an NGO for enhancing the learning experience for students.
- **Distinguished student award & full scholarship** throughout my undergraduate degree.
- **Public relations team member** at The Insider, first student-run media organization in Egypt.
- **Marketing team member** at AYB, a sustainable development NGO.

Languages and Technologies

- Proficient in Java, SQL, Git, Matlab; familiar with Python, Javascript, NumPy, Tableau, Spring Boot, Flask, Linux.