Omar Aboelsoud

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Experience

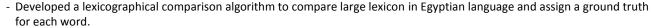
Valeo (Jan '17 - Mar'18)

Software Engineering Intern – Tooling CDV Validation

- Developed algorithm to generate test cases based on test design input.
- Developed web portal for tooling team.
- Developed a communication methodology to connect user application with DMA driver without using the wrapper driver.

Nile University (Feb '16- Jul '16)

Junior NLP Research Assistant





- Developed classification model to predict semantic completeness.
- Developed semantic matcher model for Egyptian tweets.

Intel Labs (Feb '14 - Aug '14)

Research and Development Software Engineer Intern

- Developed a dynamic system workflow for proposal approval system that tracks collaboration projects from draft stage to final stage.



- Contribute in internet of things vehicle to vehicle communication research.



Education

Nile University

Bachelor of Computer Engineering Class'18.

Selected undergraduate courses

Convolution Neural Networks for Visual Recognition, Practical Machine Learning, Data Structures and Algorithms, Databases, Computer Architecture, Operating Systems, Discrete Mathematics, Network Security.

Skill

- Proficient programmer in numerous languages including:
 - o C / C++, Java, Python, SQL and C#.
- Competent at using the following tools:
 - o Linux, Shell Scripts (Bourne, and Bourne derived), Git, Vim, Emacs.

Projects

Bibliography Extractor Chatbot, Graduation Project

- Develop algorithm to extract reference section from the publication.
- Implemented a parser extractor to identify references strings from publications and label them whether to author, title or other using CRF++.
- Develop Recurrent and Convolution Neural Network Modified model for understanding and extracting intent and entity from sentence (user input)
- Developed script for generating dynamic search queries based on the parsed output from neural network model

Vision Bid, MIT Enterprise Forum Arab Startup Competition – Semi Final (Jan'15)

A motorcycle helmet detects the blind spots using ultra sonic sensors and displays the warnings on Google glass.

- Developed an algorithm that detects once the riders make accident and automatically calls the emergency.
- Develop an algorithm that locates warning position and draws it on Google Maps.
- Developed an algorithm that displays to the rider whether a nearby vehicles lies within the warning zone range or not
- Implemented a bone conduction headset inside the helmet.
- Implemented voice to action model that translate rider's voice order to action such as locating a place on the maps and making calls.

Honors

MIT Enterprise Forum Arab Startup Competition – Semi Final. (Jan'15)



