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 a lexicographical comparison algorithm to compare large lexicon in Egyptian language and assign a ground truth for each word.
- 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.
- Developed dynamic system that generates report for all collaboration projects status in Excel.
- 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:**
  - C / C++, Java,Python ,SQL and C#.
- **Competent at using the following tools:**
  - 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)