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PROFESSIONAL EXPERIENCE

Software Engineer	Axxcelera Broadband Wireless Egypt	May 2012 – May 2014
LTE Wireless Broadband Communication System		
<ul style="list-style-type: none">Increased system capacity by 60% through implementing a dynamic distributed cooperative interference mitigation algorithm that allocates resources to cells and which copes with load changes in the cell. C, C++Implemented algorithms that estimate the quality of the uplink channel for each user successfully and achieved > 90% accuracy, allocating each user the best fit resources through the scheduler. MatlabImplemented a compensation algorithm which corrected the timing offset among the users at the base station, leading to achievement of system synchronization. MatlabImplemented a test case generation tool which allowed developers to identify the source of error more quickly. Matlab		
Research Assistant	Cairo University	Apr 2010 – Nov 2010
Tool for Extensive Management and Performance Optimization (TEMPO)		
<ul style="list-style-type: none">Created a prototype for a 3G network optimization tool which diagnosed system problems and provided extensive recommendations on possible solutions by using Bayesian networks		
Software Engineer, Intern	Ericsson Egypt	May 2009 – Jul 2009
FTP and File Generator Testing Tool (FFGTT)		
<ul style="list-style-type: none">Built a Java/Erlang-based tool for load/stress testing through the creation of dynamic XML test cases using DOM tree; generating and sending docs through the creation of parallel threads. Java, Erlang		

PROJECTS

- Built a face recognition web application with 99.7% accuracy by using deep learning Convolutional Neural Network (ResNet) by utilizing Python, Pytorch, Fastai library, Kaggle dataset and Render platform. **2019**
- Achieved 10x of system synchronization through effective estimation and correction of the timing/frequency offsets in WiMAX wireless system; utilized Least Square Linear Curve Fitting algorithm to estimate the error phase shift for each subframe followed by compensation algorithm (sponsored by Intel). Matlab **2008**

EDUCATION

Coursera	Stanford University	Jun 2019
<ul style="list-style-type: none">Course in Machine Learning		
Cairo, Egypt	Cairo University	Jan 2015
<ul style="list-style-type: none">M.Sc. in Computer and Communications Engineering. GPA: 3.5Graduate Coursework: Computer Architecture; Artificial Neural Networks; Pattern Recognition; Real-Time Systems; Computer and Numerical Analysis; Advanced Topics in Mathematics<i>Publication:</i> M. Said, O. Nasr, T. ElBatt. Cell Outage Compensation Algorithm for Frequency Reuse-one and ICIC LTE Networks. In IEEE Wireless Communications and Networking Conference (WCNC'16), 2016		
Cairo, Egypt	Information Technology Institute	Jul 2009
<ul style="list-style-type: none">Diploma in Computer Science with minor in Information TechnologyGraduate Coursework: Database Fundamentals; Networks; Programming Languages; Operating Systems		
Cairo, Egypt	Cairo University	Jul 2008
<ul style="list-style-type: none">B.Sc. in Electronics and Communications EngineeringUndergraduate Coursework: Programming; Data Structures; Mathematics; Communications; Electromagnetic Waves; Circuits; Control; Electronics; Physics		

LANGUAGES AND TECHNOLOGIES

Proficient: Java; C; Linux; Git

Familiar: Python; C++; Matlab/Octave; Pytorch; Android Studio; JavaScript; HTML/CSS; SQL