

Samy Shihata

samy.s.shihata@gmail.com

EDUCATION

THE GERMAN UNIVERSITY IN CAIRO

BS IN COMPUTER SCIENCE AND ENGINEERING

Expected June 2015 | Cairo, Egypt

Conc. in Computer Science

Faculty of Media Engineering and Technology

Highest Honors (All Semesters)

Second top ranked student (class 2015)

Cum. GPA: 0.89 / 0.7

EL NASR BOYS SCHOOL

Grad. May 2010 | Alexandria, Egypt

LINKS

Github:// [sshihata](#)

Linkedin:// [samy-saad](#)

Quora:// [Samy-Saad](#)

COURSEWORK

CURRENT (SENIOR YEAR)

Knowledge Representation and Reasoning

Artificial Intelligence

Machine Learning

Compilers + Practicum

UNDERGRADUATE

Theory Of Computation

Analysis and Design of Algorithms

Functional Programming

Declarative Programming

Operating Systems

Computer Graphics + Practicum

Computer Vision

Software Engineering

SKILLS

PROGRAMMING

Over 5000 lines:

C • C++ • Java • C#

Matlab • Rails

CSS • HTML • Javascript

Over 1000 lines:

Prolog • Python • Visual Basic

SQL • Verilog

Familiar:

CHR • Haskell • Lisp • \LaTeX

DEVELOPEMENT

Agile • Git • Svn

EXPERIENCE

AUGSBURG UNIVERSITY | SOFTWARE ENGINEERING INTERN

June 2014 – July 2014 | Augsburg, Germany

- Added EEG classification to the SSI Framework.
- Designed and developed EEG classifier from scratch

INTEL EGYPT | SOFTWARE ENGINEERING INTERN

August 2013 – September 2014 | Cairo, Egypt

- Text Sentimental Analysis using Machine Learning.

THE GERMAN UNIVERSITY IN CAIRO | WEB DEVELOPEMENT INTERN

January 2013 – March 2013 | Cairo, Egypt

- Part of a team that created an introductory website to the university.
- Project is currently in beta testing.

BACHELOR THESIS

EMOTION RECOGNITION: SUPERVISED CLASSIFICATION OF EEG SIGNALS

Supervised by **Prof. Dr. Elizabeth André** while working on **AuBT**, a Matlab toolbox for analysing physiological signals. I was tasked with adding support for EEG classificaion, starting with signal parsing and feature extraction. I also implemented EEG-specific classifiers.

After validation of results, I ported the code from Matlab to C++ for integration into the SSI framework.

AWARDS

- 2013 The German University in Cairo Full Semester Scholarship
- 2013 Academic Excellence Award
- 2011 The German University in Cairo Partial Semester Scholarship
- 2011 Academic Excellence Award
- 2010 The German University in Cairo Partial Scholarship

SOCIETIES

- 2014 Artificial Intelligence Research Group

LANGUAGES

- English Fluent
- Arabic Mother tongue
- German Basic

November 19, 2014

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Student Services
Aalto University School of Science
P.O. Box 15400
FI-00076 AALTO (city: Espoo)
Finland

To whom it may concern,

I would like to express my wish to join the Master's Program in Security and Mobile Computing. Allow me to provide some information that may further support my application. I am currently a senior Computer Science and Engineering student at the German University in Cairo. My interest in computer science began with learning C at the age of twelve, followed by other languages such as C++, visual basic. I mainly practiced on small projects for my own use.

Following high school, I decided to follow a career in computer science. I was offered a partial scholarship to join the Bachelor Program in Computer Science and Engineering of the German University in Cairo. I am currently in my senior year and expected to graduate next semester with highest honors. I am currently ranked the second top student of my class with GPA: 0.89/0.7. My chosen study track covered courses of Computer and Network Security, Machine Learning, Knowledge Representation and Reasoning, First Order Logic, Analysis and Design of Algorithms and Declarative and Functional programming. I also included some general courses such as Software Engineering and Computer Graphics. During my study, I attended several extra-curricular courses and workshops abroad such as the CHR workshop 2013 in Berlin. These trips were funded by my university as a reward of academic excellence. Finally, I did my Bachelor Project during my stay in Augsburg university as an exchange student, under the supervision of Prof. Dr. Elizabeth Andre. My Thesis was titled the Emotion Classification: Sentimental Analysis over EEG. My stay there was also funded by my university.

I was involved in several internships relating to web development, including a website for the university itself. I have also done internships with Intel Egypt Corporation and The Augsburg University HCM lab. Currently, I am part of an effort to start an Artificial Intelligence research group in the German University in Cairo, in which I am mainly responsible of Machine Learning and Data Mining research. While I have tried to gather a diverse experience in the fields of computer science, networking and security have recently become my main focus. With the sheer abundance of information across the net, vulnerable systems and crackable networks are more dangerous than ever. Furthermore, new systems must be able to handle unprecedented traffic stress with the scale of user bases continuing to increase exponentially. Today, all fields demand systems that guarantee relayability, security and scalability.

In addition to university courses, I have strived to increase my knowledge with the field in several ways, including covering cyptography courses offered by Coursera.com. In order to gain the necessary knowledge base and research skills for me to pursue a career in networks security, I decided to take a Master's program in systems security and networking. After reviewing the top univversities that offer such a program, I find the NordSecMob program most suited to my goals. The program's connection to some of the most prestigious educational instutions in Europe guarantee a high level of standards in education. Also, having gone over the list of publications made throughout the program, it is clear that the program is research directed,

encouraging true contributions to the field. Regarding the content of the program, I am most interested in the Information Security and Cryptography foundations specializations.

In conclusion, I would like to point out that I am a hard working student, passionate, eager to learn and will be happy to share my passion towards the fields should I be given the opportunity to join this program. I believe that I will truly benefit from such an opportunity and in return I would be able to be of benefit to the scientific and research community.

Thank you for your consideration,

Samy Shehata

To whom it may concern:

Mr. Samy Saad Samy Shihata is one of the exceptional students in the Faculty of Media Engineering and Technology at the German University in Cairo. I taught him a Computer Graphics course in which he scored an A+. Samy's determination to succeed has led him to excel in classes. He was consistently getting excellent marks on his tests. I can place him among the top 2% of his class.

I do recommend him to pursue his graduate studies at your eminent institution.

Best regards,

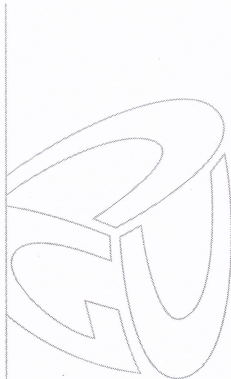
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To whom it may concern:

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