

Omar Eltobgy

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EDUCATION

SIMON FRASER UNIVERSITY

MSC IN COMPUTER SCIENCE

Started Jan. 2017 | BC, Canada.

Networks and Systems Lab

Cum. GPA: 4.0 / 4.0.

ALEXANDRIA UNIVERSITY

BSc IN COMPUTER ENGINEERING

Graduated July 2016 | Alex, Egypt.

Cum. GPA: 3.94 / 4.0.

Excellent with high degree of honor.

Third top of my class.

EL-NASR BOYS' SCHOOL (E.B.S)

SECONDARY SCHOOL CERTIFICATE

Graduated May 2011 | Alex, Egypt.

Score Percentage: 102.5 %.

LINKS

- LinkedIn:// [OmarEltobgy](#) .
- Github:// [OmarEltobgy](#) .
- Codeforces:// [OmarEltobgy](#) .
- UVa:// [OmarEltobgy](#) .

COURSEWORK

- Deep Learning.
- Multimedia Systems.
- Geometric Modeling.
- Artificial Intelligence.
- Networks.
- Operating Systems.
- Database Systems.
- Cryptography.
- Compilers.

SKILLS

PROGRAMMING

Over 30,000 lines:

• Java • C++ • Python

Familiar:

• Android • Matlab
• PHP • HTML • CSS • Javascript
• MySQL • \LaTeX • Assembly • VHDL

OTHERS

- Problem Solving • Project Management
- Leadership • Team Work
- Self Learning • Time Management
- Sports: Rowing • Running • Swimming

LANGUAGES

- Arabic: Mother Tongue.
- English: Fluent.
- French: Weak Knowledge.

EXPERIENCE

ADOBE DATA SCIENCE RESEARCH INTERNSHIP

Feb 2018 – September 2018 | Systems Technology Lab

- Worked on improving collaborative video editing in Adobe Premiere Pro.

BADRIT INTERNSHIP

June 2015 – July 2015 | Big Data Team

- Worked with big data frameworks as hadoop and spark.

RESEARCH

SIMON FRASER UNIVERSITY RESEARCH ASSISTANT

Jan 2017 – current | Network and Systems Lab

- Streaming live 360 videos efficiently using tiles and LTE multicast.
- Published a paper in ACM MM 2017 thematic workshop.

QATAR COMPUTING RESEARCH INSTITUTE (QCRI) INTERNSHIP

July 2015 – August 2015 | Distributed Systems Team

- Improving the implementation of a paper about automatic 2D to 3D conversion engine for sports' videos.

SELECTED PROJECTS

BRAINLOCK

Authentication system using brainwave signals,
Published paper in ICASSP 2018.

VRCAST

Multicast streaming of live 360-degree videos over LTE.

MIX-N-MATCH 3D CHAIR MODELS

Generate new 3D chair models by mixing different segments.

COMPILER

Lexical Analyzer, Parser, Semantic Analysis, and Code Generation.

RECOMMENDER SYSTEM

Based on a Kaggle dataset, predict ratings users would give to an item.

PINTOS PROJECT

Stanford's OS project to modify an OS and add new features to it.

MINIBASE | BUFFER MANAGER, HEAP FILES, B+ TREES, DATABASE

University of Wisconsin's database management system project.

AWARDS

2017	Grad. Fellowship	Simon Fraser University.
2016	Top 10	VT Knowledge Works Global Entrepreneur Challenge.
2013/2014	Top 20	ACM Egyptian Collegiate Programming Contest.
2009/2010	Silver Medal	Egyptian Olympiad in Informatics (EOI).
2012	Silver Medal	National Rowing Competition.

SOCIETIES

2015	Chairman	Engineering Web Scientific Org.
2014	Project Manager	Electric Week 14 Scientific Conference.
2013	Vice Chairman	Allemny Educational Initiative.
2012	Volunteer	HR and Marketing Committee, Engineering Web Scientific Org.