

Anton Elias Deik

Computer Systems Engineer
Birzeit University, Palestine

Personal Information

Date Of Birth: May 14, 1987
Place of Birth: Jerusalem
Nationality: Palestinian
Residence: Bethlehem, Palestine
Marital status: Single

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Research Interest

Database: Graph Databases, Query Optimization, Distributed Databases.
Web: Web 3.0, Semantic Web, Linked Data, RDF, SPARQL.
Application Areas: Data Integration, e-Government, Interoperability, e-Commerce, Digital Libraries.

Education

2005 - 2010 Bachelor Degree in Computer Systems Engineering
Birzeit University, Palestine
Average: 81.60%

Thesis Project: Querying the Data Web
Supervisor: Dr. Mustafa Jarrar
Jury: Prof. Adnan Yahya, Dr. Yousef Hassouneh, Dr. Amneh Elyan

2000-2005 Secondary School Certificate (Tawjihi)
Dar Al-Kalima Lutheran School, Palestine
Average: 94.4%

Technical Skills

**Professional-level skills are underlined*

Programming Languages: C/C++, Java, PHP, JavaScript, Prolog, SQL/PLSQL, UNIX shell scripting, x86 Assembly, VHDL.

Web Technologies: (X)HTML, CSS, XML, XSL, RDF, SPARQL.

Database Systems: Oracle 11g (with semantic technology), MySQL, Microsoft Access.

Platforms: Linux (Ubuntu, Fedora), Windows (98, 2000, XP, Vista, 7), Windows Server 2003.

Software: Eclipse IDE for Java, phpDesigner 7, MS Visual Studio 2005 for C++, Microsoft Visio, Dia, Cadence OrCAD Capture, PSpice A/D, Matlab, Packet Tracer, Adobe Photoshop.

Internship

June 2009 6 weeks **Trier University of Applied Sciences (Fachhochschule Trier)**, Trier, Germany.
(Research Intern)
Host: Prof. Dr.-Ing. Jörn Schneider, Embedded Systems Lab, Computer Science Department.
Activities:

- Integrating the OSEK automotive-oriented operating system with the MPC5510-based embedded system.
- Writing illustrative examples and detailed documentation for the system.

Conferences Participation

June 2010 Speaker **ISWSA'10 – The International Conference on Intelligent Semantic Web - Services and Applications**, held in Isra University, Amman, Jordan.
Article Title: "Towards Query Optimization for the Data Web – Disk Based Algorithms: Trace Equivalence and Bisimilarity".

Mar. 2010 Speaker **PICCIT'10 - The 3rd Palestinian International Conference on Computer and IT**, held in Palestine Polytechnic University, Hebron, Palestine.
Article Title: "Towards Query Optimization for the Data Web".

Refereed Publications

1. Ala Hawash, **Anton Deik**, and Mustafa Jarrar: Towards Query Optimization for the Data Web – Disk Based Algorithms: Trace Equivalence and Bisimilarity. In Proceedings of the International Conference on Intelligent Semantic Web – Services and Applications. Amman, Jordan. June 2010.
2. **Anton Deik**, Bilal Faraj, Ala Hawash, Mustafa Jarrar: Towards Query Optimization for the Data Web. In proceedings of the 3rd Palestinian International Conference on Computer and Information Technology (PICCIT 2010). Hebron, Palestine. March 2010.

Training Courses

1. **Miracle Corners of the World 12th Youth Leadership Retreat** in New York City and Burlington, Vermont. <http://www.miraclecorners.org/>
Outcomes: Building leadership and entrepreneurship skills, preparing vision plans, engaging in cross cultural dialogue, and networking all around the world. Jul. 2009 – Aug. 2009
2. **Cisco Networking Academy (CCNA-2) course** at IT Center of Excellence, Birzeit University, Palestine. Jan. 2009 – Apr. 2009
Outcomes: Initial router configuration, Cisco IOS Software management, routing protocol configuration, TCP/IP, and access control lists (ACLs).
3. **Cisco Networking Academy (CCNA-1) course** at IT Center of Excellence, Birzeit University, Palestine. Sept. 2008– Dec. 2008
Outcomes: Network protocols, subnet masks and addresses, building Ethernet networks, Employing cabling and network designs to connect devices, and using basic Cisco CLI commands.
4. **German Language Intensive course (100 hours)** at “Amt für Weiterbildung - Volkshochschule”, Cologne, Germany. Jul. 2004 – Aug. 2004
Outcomes: German language basic comprehension, reading, writing and speaking skills in addition to German language grammar.
5. **Adobe Photoshop course** at Bethlehem University, Palestine. Jul. 2003 – Aug. 2003
Outcomes: Adobe Photoshop skills: layers, blend modes, selections and masks, filters, painting and retouching tools, and image modes.

Volunteer Work

1. **Member of the Right to Education Campaign**, Public Relations Office, Birzeit University, Palestine. Sept. 2009 – Present
Responsibilities:
 - Building the Right to Education Campaign Website.
 - Organizing video conferences with campaign supporters from the UK.
 - Meeting with delegations.
 - Participated in workshops and trainings on International Law.
2. **Technical assistant at Birzeit University computer lab.** Jan. 2008 - June 2008
Activity: Assisting the computer lab administrator.

Personal Skills

- Self-motivated, hard-working and detail-oriented person with ability to work under pressure.
- Strong written and verbal presentation and communication skills.
- Ability to work in a team with people of different ages and from different disciplines and cultural backgrounds.
- Strong problem-solving skills that contribute to productive outcomes.

Languages

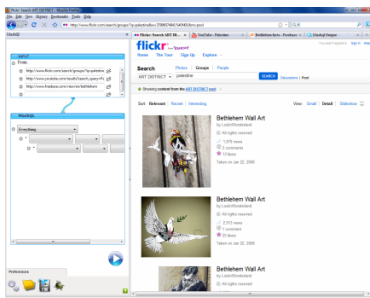
- **Arabic (Mother language)** - Excellent
- **English** - Excellent
TOEFL iBT (Dec. 2009): Total Score: 107
- **German** - Moderate

References

- **Dr. Mustafa Jarrar**, Faculty of Information Technology, Birzeit University
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- **Dr. Emad Hamadeh**, Department of Computer Systems Engineering, Birzeit University
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- **Anan Quzmar**, Public Relations Office, Birzeit University
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Research Prototypes

MashQL Firefox add-on Editor



This Firefox add-on transforms the web browser from being merely a navigator into a web composer by allowing the development of mashups at the client side. The left side window shows the MashQL query module. When creating a data mashup, the visited pages -in the browser tabs- are automatically selected as input sources to this query. Users can exclude some of them, and/or add local files. The results are rendered into a new tab, and can be saved locally. Users can also save queries and choose their periodic refreshments. The idea is to allow web pages that embed RDF triples (i.e., RDFa or microformats) to be queried and mashed up.

Oracle extension for query optimization of web databases



Querying large web databases is a well known issue and has brought the attention of the scientific community. Oracle provided a solution to this problem in what is known as Oracle Semantic Technologies. However, a query of medium complexity costs several seconds. This performance is unacceptable in many applications such as MashQL. Oracle's extension provides a major enhancement on oracle's semantic technologies especially in queries where Oracle engine is not optimized for.