Curriculum Vitae

Ala' Sami Hawash

Computer Systems Engineer
Birzeit University, Palestine

Personal Information

Date Of Birth:	March 29, 1988
Place of Birth:	Bethlehem
Nationality:	Palestinian
Residence:	Beit-Sahour, Palestine
Marital status:	Single

Address	Al-Ras St., Beit-Sahour, Palestine
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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: 85%

> 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)
Terra Sancta High School, Bethlehem, Palestine
Average: 98.1%

Technical Skills   *Professional-level skills are underlined*

Programming Languages:	*C/C++, Java, PHP*, *JavaScript*, VB, *SQL/PLSQL*, 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*, MS Visual Studio, Microsoft Visio, Cadence OrCAD Capture, PSpice A/D, Matlab, Wireshark.

Work Experience

January 2010 - Present	**Exalt Technologies**, Ramallah - Palestine *Position:* Software Engineer. *Tasks:* Blackberry applications development and testing.

Internship

June 2009   10 weeks   **Daimler AG**, Stuttgart/ Germany.

Host: Thomas Wonneberger/Dirk Dombrowski, Global Application Security.

*Activiti*es:

- Implementation of additional functionality within an existing database application- based on MS Access – for plant location information.
- Internet researches for diverse issues in the field of application security.

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: <u>Towards Query Optimization for the Data Web – Disk Based Algorithms: Trace Equivalence and Bisimilarity.</u> 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: <u>Towards Query Optimization for the Data Web</u>. In proceedings of the 3rd Palestinian International Conference on Computer and Information Technology (PICCIT 2010). Hebron, Palestine. March 2010.

Personal Skills

- Enjoy working as an effective member in a team.
- Good communication skills and charisma.
- Positive attitudes towards learning environments.
- Hard working and willing to work under pressure.
- Ambitious and enjoy challenging situations.

Languages

- **Arabic (Mother language) -** Excellent

- **English -** Excellent
  TOEFL iBT (December 2009): Total Score: 95

- **French -** Moderate

- **German –** Basics

References

- **Dr. Mustafa Jarrar**, Faculty of Information Technology, Birzeit University
  Tel: +972-2-2982917
  Email: mjarrar@birzeit.edu

- **Dr. Hanna Bullata**, Department of Computer Systems Engineering, Birzeit University
  Tel: +972-2-2982917
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- **Dr. Emad Hamadeh**, Department of Computer Systems Engineering, Birzeit University
  Tel: +972 54 6426873
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Research Prototypes

MashQL Firefox add-on Editor
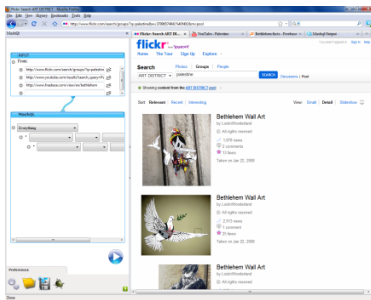
This Firefox add-on transforms the web browser from being merely a navigator into a web composer by allowing the development of mashups at the client side. The left side window shows the MashQL query module. When creating a data mashup, the visited pages -in the browser tabs- are automatically selected 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.