Michail Michailidis

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E D U C A T I O N

Athens University of Economics and Business – Computer Science (8 semester undergraduate program)

2005-2010 (4 year Ptychion/Diploma) with areas of specialization:

"Databases and Knowledge Management" and "Computer Systems and Networks"

Graduation Grade: 8.51/10 (Excellent)

36 courses taken (see below for details*)

Rankings: top 3.08% or 4th of 130 Computer Science Graduates of my class (2005),

top 2.15% or 18th of 839 Computer Science Graduates in years 2005 through 2010 (classes 2001 to 2006)

1st High School of Glyfada

2002-2005

Grade: $18\frac{1}{13}$ / 20 (Excellent)

S K I L L S

General Computer Operating System Skills: *DOS*, *Windows* (3.1, 95, 98, XP, *Vista*, 7), *UNIX*, *Linux* (*Debian*, *Ubuntu*), *Android* 2.1

General Purpose Programming: *Java SE* (including *Java FX*), *C/C++*

Web Programming: *PHP, Java Servlets, JSP, XML/SVG, XSLT, XHTML/HTML, CSS3, JavaScript/Ajax, JavaScript/JQuery*

Relational DBMS and XML Databases: *mySQL, postgreSQL, Microsoft SQL-Server, XPath, XQuery,* Client Side Databases using *SQLite (Chrome browser)*

NOSQL-Databases: *MongoDB*

Software Analysis and Design: *UML*

Design Patterns: *Strategy*, Command and other basic design patterns, *Data-Access-Objects & Data-Transfer -Objects Model-View-Controller synthetic design pattern*

Digital Circuits: *VHDL*

Logic Languages: *Prolog*

Computer Networks: *Omnet*++, Wireshark

Security: Nessus, *Nmap* and other penetrating software.

Software Tools or Software Bundles: *Adobe Fireworks, Apache, Apache Tomcat, XAMPP, phpmyadmin, phppgadmin, RockMongo*

Other skills: *Git, SVN, Netbeans IDE, Eclipse IDE, Drupal,*

Joomla, Wordpress, phpBB, vbulletin, cPanel, Adobe Photoshop /Adobe Fireworks basic skills,

F O R E I G N   L A N G U A G E S

English: *GRE Revised* (V152 below: 56% Q155 below: 69% AW4.0 below: 48%) , TOEFL (105/120), Excellent Use of English (Cambridge *FCE*)

French: Good Use of French (*DELF A1, A2, A3, A4*)

*equivalent old *GRE* score V490 Q710 (http://www.ets.org/s/gre/pdf/concordance_information.pdf)

P R O J E C T S

Network Projects

- **Basic Socket Programming in implementing FTP client/server using C.**
- **Implementation of a Grid based on the JGrid philosophy for Android using simulation for distributed mathematic operations. (Java and Android SDK)** - griddroid.wordpress.com
- **Test Analysis of Interference when two routers operate in wireless using different values of physical and channel distances.**

Web Projects

- **Professor Rating System with dynamic questionnaires and statistics, pdf output and xml export/import operations.**
  (for Information Systems Applications Development course - PHP + pdf plugin + statistics plugin , mySQL, Javascript/Ajax, XHTML/CSS)
- **Torrent Website with torrent upload and downloads and other torrent management pages based on Azureus SDK**
  (for Databases course using JSP, Java Servlets, Azureus java development kit , SQL Server 2005)
- **Online Betting System with online dynamic odds according to the remaining time and goals.**
  (for Information Systems Applications Development course - UML analysis and design, PHP & mySQL, Javascript/Ajax, HTML)
- **Twitter based clone website with the same basic functions**
  (for Web Technologies and Applications course - PHP & mySQL, Javascript/Ajax, XHTML, CSS)
- **Basic electronic e-secretary for universities**
  (for Databases course - PHP & mySQL, *HTML*, CSS)
- **Homentry (www.homentry.gr)**
  PHP (+xml2array parser), mySQL, Javascript, XHTML/CSS (see details in Work Experience)
- **Patient Management Software (interface: incomplete)**
  PHP (+xml2array parser), mySQL, JavaFX & Java, XHTML/CSS/Javascript(+Ajax) (see details in Work Experience)
- **Small websites with HTML/CSS/Javascript since 1999**

Artificial Intelligence Projects

- **Othello/Reversi** with Java (for Artificial Intelligence course)
- **Wumpus World Agent** with Java and PROLOG Knowledge base (for Artificial Intelligence course)

Other Projects

- **Custom project (still in progress) making an alternative to Freebase.com search engine/database for ontologies and relations** *(based on MongoDB and PHP on the Cloud)* ***motivated by*** *"A Hybrid Approach to Constructing Tag Hierarchies"[1], "Using tagFlake for Condensing Navigable Tag Hierarchies from Tag Clouds"[2] and "*Integrating Folksonomies with the Semantic Web*"[3].*
- **Research project of Prof. Vasilis Vassalos** where I had to study "*Cost Based Plan Selection for XPath*"[4] and "*Efficient Physical Operators for Cost-based XPath Execution*"[5], in order to refactor the implementation code of it and later implement some new algorithmic parts that weren't implemented yet.
- **Data Retrieval using Google Research for Query Amelioration using Clustering (Java)** (for Information Retrieval Systems course)
- **Similar Image Extraction using PHP, Flickr API for PHP and pHash Library.** (for Multimedia Technology course)
- **First Person Shooter Game for PC using C++ and OpenGL Library** (for Computer Graphics course)
- **Tag-space suggest optimization using information from Wiki API, Google Suggest API and Freebase API** (custom project)
- **MyMiniFramework for building Entities and Data Access Objects according to the schema of a database for Database decoupling using PHP and mySQL** (custom project)

WORK EXPERIENCE

PHP-mySQL Programmer / Maintainer at Kosmos Press LTD - kosmospress.eu (Part Time: 02/2011-)

- Implemented a custom CMS portal in PHP-mySQL, to substitute the old Joomla CMS portal. Also providing any upgrades or support on demand.

PHP-mySQL Programmer and Web Developer at Globalstar Interactive (Full Time: 02/2011-05/2011)

- Worked on custom ERP implemented with PHP-mySQL for Winwindeals.gr that is based on Wordpress.
- *Worked on Drupal site development in the following projects especially making the theme and some custom php-mySQL modifications:*
- Fireworks.gr, Luna, PetLine, Elmisystems, TELE, Prosperlink, Golf, PSP, Rota, IEK, Ipokratios, Evel, Tandros, Fontana, Tragadas, Chronopoulos Rehabilitation Center,
  Champion E-shop

Web Developer at Web & Art Solutions (Full Time: 10/2010-01/2011)

- **Homentry Real Estate (**www.homentry.gr**)**
  Key challenge: Populating the database using an XML file containing all the real estates and additional indexing information, that was generated with www.orbit.gr (Mesitiko Plus Software)
  Backbone Implementation: PHP (+xml2array parser), mySQL
  Interface Implementation with others' design input. HTML/CSS/Javascript

- **Patient Management Software (interface incomplete):**
  Key challenges: Support Language packs, let the doctor change the format of the forms, make small drawings on special patient pictures and then store them as new files having these changes, using web interface.
  Backbone Implementation: PHP (+xml2array parser), mySQL, JavaFX & Java for drawing and storing mechanism using a PHP service. XML helps in extensible forms and types of fields that doctors can change anytime, without altering the database
  Incomplete Interface Implementation: HTML/CSS/Javascript(+Ajax)

- **Smaller Projects:**
  Converting psd files to html/css/javascript for many sites
  Converting small Joomla plugins for non-Joomla sites
  Adding scripts and altering themes for many sites

ECDL Teacher at MyCorner Tutoring Center - www.goneis-gr.info (Part Time: 5/2008-7/2008)

- Teaching Basic Computer and Internet Skills
  to Parents of High School Students.

*LIST OF COURSES TAKEN AND GRADES

Course Naming according to www.cs.aueb.gr

Name	Type	Grade	Name	Type	Grade
Accounting	Core	6/10	Linear Algebra and Applications	Core	10/10
Algorithms	Core	8.5/10	Operating Systems	Core	8.5/10
An Introduction to Economics	Core	9/10	Probability	Core	8/10
Automata and Complexity	Core	6.5/10	Software Engineering	Core	5/10
Calculus	Core	10/10	Artificial Intelligence	Requirement Area	8.5/10
Communication Networks	Core	8/10	Computer Architecture	Requirement Area	8.5/10
Compilers	Core	10/10	Computer Networks	Requirement Area	9/10
Computational Mathematics (Numerical Analysis)	Core	7/10	Database System Design	Requirement Area	8/10
Computer Programming in C++	Core	9.5/10	Distributed Systems	Requirement Area	9/10
Computer Programming in Java	Core	9/10	Information Retrieval Systems	Requirement Area	9/10
Computer Systems Organization	Core	10/10	Computer Network Security	Optional Area	9/10
Data Structures	Core	9/10	Human-Computer Interaction	Optional Area	10/10
Databases	Core	8.5/10	Information Systems Applications Development	Optional Area	9/10

Digital System Design	Core	10/10	Information Systems Project Management	Optional Area		8/10
Discrete Mathematics	Core	7/10	Information Systems Security	Optional Area	8.5/10	
Information Systems Analysis and Design	Core	8/10	Multimedia Technology	Optional Area		9/10
Introduction to Computer Programming	Core	7.5/10	Web Technologies and Applications	Optional Area		9.5/10
Introduction to Computer Science	Core	8/10	Wireless Networks and Mobile Communications	Optional Area		8.5/10

MAIN INTERESTS IN COMPUTER SCIENCE
Databases , Data Mining, Computational Biology, Visualization, Machine Learning, Future World Wide Web

PROFESSIONAL ACTIVITIES
ACM Professional Full Member
- (November 2011 -)

SOCIAL COMMUNITY VOLUNTEERING
Computer Science Academic Forum (Venus) / Academic Volunteering:
- (2005 -) Moderation/Administration Member and Volunteer of the Official Computer Science Forum of Athens University of Economics and Business (http://venus.cs.aueb.gr)
  - ➢ (2011) Visually Integrated custom theme for Venus Project Academic Community in Wordpress and PhpBB.
  - ➢ (2009-2011) Made the hand written lectures (more than 100 pages) of university course "Discrete Mathematics" digital using digital math symbols and making new figures for each lecture. With permission of Prof. Katerinis Panagiotis they can be downloaded by every student. Corrections and improvement were done too (sample (Greek): http://venus.cs.aueb.gr/files/notes/diakrita/kef8-theoria%20grafimatwn-v2.pdf)
  - ➢ (Interviewed Prof. M.Faloutsos from Carnegie Mellon for Venus digital magazine: (http://venus.cs.aueb.gr/dotmag/files/issues/issue1.pdf)
  - ➢ (2006-2010) Often, I organize Social Meetings, Events and write technical reviews or tutorials.

Facebook activities:
- (2011 -) Administrator and maker of "United States PhDs and PhDs Students that graduated from AUEB Computer Science (14 members) trying to unite all Computer Science graduates of my university, that are now on a PhD program or have a PhD in United States..
- (2009 -) Co- administrator of "Computer Science (AUEB)" (502 members)
- (2008 -) Co-administrator of "Venus Project Computer Science Community FB Group" (408 members)

Donations
- (2011-) Blood donor
- (2011) Wikipedia donor (*Keep_Wikipedia_Free* 18th of November)
- (2011) Greenpeace donor (Rainbow Warrior: http://anewwarrior.greenpeace.org/)
- (2005-2008) CPU donor as active member of "Venus Folding Team" at Stanford Folding@Home

HOBBIES AND OTHER ACTIVITIES
Basketball:
- (2011-2012) Joining Local Basketball League of South suburbs of Athens
- (1997-2000) Joined Local Basketball Teams and local tournaments.

Swimming:
- (1995-1997)

Loudspeaker Design:
- (2003-2005) Active Member of Do-It-Yourself Audio Forum (www.diyaudio.com)

REFERENCES

[1] Geir Solskinnsbakk, Jon Atle Gulla, A Hybrid Approach to Constructing Tag Hierarchies

[2] Luigi Di Caro, K. Selçuk Candan, Maria Luisa Sapino Using tagFlake for Condensing Navigable Tag Hierarchies from Tag Clouds –
KDD '08 Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining, ACM New York, NY, USA ©2008

[3] Lucia Specia, Enrico Mott, Integrating Folksonomies with the Semantic Web

[4] Haris Georgiadis, Minas Charalambides and Vasilis Vassalos, Cost Based Plan Selection for XPath –
SIGMOD '09 Proceedings of the 35th SIGMOD international conference on Management of data, ACM New York, NY, USA ©2009

[5] Haris Georgiadis, Minas Charalambides and Vasilis Vassalos, Efficient Physical Operators for a cost-based XPath Execution Engine –
EDBT '10 Proceedings of the 13th International Conference on Extending Database Technology, ACM New York, NY, USA ©2010