

Costas Zarifis

Curriculum Vitae

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Education

Currently *Ph.D. in Computer Science* under the supervision of Yannis Papakonstantinou, *Database Group* at **UC San Diego**. Expanding the FORWARD web application framework (forward.ucsd.edu) and the DELPHI platform (delphi.ucsd.edu). **Master's degree** expected from **UC San Diego** in June 2015.
Current GPA: 3.73

05/13 *Diploma in Electronic and Computer Engineering (5 year University Degree Program)*, *Technical University of Crete, Greece*.
Graduation grade: 81.5/100
Average grade in *Computer Science* elective courses taken in ECE: 88/100
Average grade in courses taken in my final year: 90/100
My *diploma thesis* is in the area of *Software Engineering*.

Computer skills

Programming/Scripting Languages

Java, Python, nesC, C/C++

Web Development Languages

HTML, CSS, PHP, javascript, JSP, XSD, XML, Xpath, XSL, XQuery

Web Services

SOAP, WSDL, RESTfull services

Tools & DB Systems

AngularJS, Java JAX-RS/JAX-WS, TinyOS, Apache Tomcat & Glassfish, PostgreSQL, MySQL & eXist DB, SciDB, HADOOP Map/Reduce, JDBC library, CodeIgniter PHP Framework, Java Spring, Android Framework, GIT, Boost library, WordPress development, L^AT_EX

Requirements Modeling, Design and Usability Engineering

Use Cases, UML, ICONIX, Storyboarding, Paper Prototyping, Power Point Prototyping, Contextual design, Walkthrough Evaluation, Think Aloud Evaluation, Heuristic Evaluation

Research Interests

- Software Engineering
- Web & Mobile Architectures, Applications, and Services
- Database Systems & Big Data Management Systems
- Wireless Sensor Networks

Honors

- Dean's List - In all 5 years of undergraduate studies(2007-2012)
- Top 10% - When accepted by ECE Department

Work Experience

Annai Systems, Bioinformatics/Data Management

6/14 - Internship as DB Engineer & Big Data Analyst.
9/14 www.annaisystems.com

- Development of data-mining framework for big genomic data on a cluster
- Integration of SciDB (Array Based DBMS) and iPython notebooks to effectively store & analyze genomic data
- Applying machine learning algorithms and performing Principal component analysis on genomic data to extract meaningful information.

Enter Events, Event Organization Company

04/13 System Administrator & Web Developer. (contracted assignment)
enterevents.gr

- Implementation using CodeIgniter MVC PHP Framework

- HTML template implementation & CSS fine tuning - Use of Javascript & jQuery UI widgets

Mobile Developer

10/14 Mobile app providing easy access to my blog available on Google Play.

8/12 - 3 Android Applications (NOT including the part of my Thesis project), all of which will soon be available on my site
To Date and on Google Play,

luben magazine
11/12 - System Administrator & Web Developer.
07/13 luben.tv

- Installation, configuration & maintenance of web server, website & mail server
- HCI & specification analysis of the website
- Functional prioritization & delegation of duties
- Supervision of development process & delivery of the final product

nohSYS IT & Engineering Company

7/11 - Internship as DB & Web Developer.
9/11 www.nohsys.net

- Usage of PHP MVC Framework (CodeIgniter) - HTML template development & CSS fine tuning
- Both Front-End & Back-End Development

Selected Projects

Thesis Implementation

My thesis consists of an Android Application, a Web Service and a Wireless Sensor Network (WSN) program. Supported operations include the generation and execution of aggregate queries (sum, avg, min etc) and outlier detection on the sensor network using the android application.

UI Prototyping

In this project the UI design of an application was created after performing a Pluralistic Walkthrough and a Think Aloud Evaluation using real users. Additionally, a Heuristic Evaluation was performed using Jacob Nielsen's and Deborah Mayhew's guidelines.

Open Archival System - Web Service

In this project a SOAP Web Service of a book/video store system was implemented. The system supported the OAI-PMH protocol and stored custom data entries into a native XML database. Additionally, the transformation into the DC prototype was also supported.

GIS Software Development for a Sea Navigation System

In this project, a C++ application was developed that calculates the route of a ship given the coordinates of the current position and the destination. Data handling techniques such as QuadTree Gridding were used to manipulate geometry entities and the BFS algorithm was used to calculate the route on the map. A number of C++ libraries, such as Boost, CGAL, ORG-GDAL were also used.

Mobile Application & Web Service Development - Ideal Vacation Destination

In this project, an Android Application and a Web Service were developed to collect the user's preferences about his ideal vacation destination. Future work will include the application of matching techniques to decide possible holiday destinations for each user.

Implementation of two normalization algorithms for a Hadoop Map-Reduce system

In this project two algorithms responsible for the normalization and handling of Big Data were implemented. Additionally, a series of tests were performed to stress the advantages of each one of these algorithms over the other while processing various data-sets.

Languages

Greek **Mother tongue**
English **Fluent**

TOEFL(109/120) - Certificate in Advanced English (CAE)