

# Stelios Sfakianakis

SOFTWARE ENGINEER · BIOINFORMATICIAN

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## Education

### Technical University of Crete

Chania, Greece

#### PhD in Bioinformatics

2008-2016

- Title: *Exploration of disease - specific biomarkers in cancer research by integrating biological knowledge and high throughput data*
- This thesis proposed a data driven approach for the characterization of Circulating Tumor Cells in Breast Cancer through the consolidation of multiple data sets and the application of statistical and machine learning methods in the integrated data.

### Department of Informatics, University of Athens

Athens, Greece

#### MSc in Computer Science, Advanced Information Systems

1996-1998

- In that early days of the World Wide Web, my master's thesis was the implementation of a "meta" search engine and "crawler" to fine tune the search results.
- Grade "A" (highest possible)

### Department of Informatics, University of Athens

Athens, Greece

#### B.S. in Computer Science

1991-1995

The final project was about the implementation of a parallel relational database in the Parsytec GCel 3/512 supercomputer (with 512 cores, state of the art at that time)

## Experience

### Institute of Computer Science, FORTH

Heraklion, Crete, Greece

#### SENIOR SOFTWARE ENGINEER AND SYSTEM ARCHITECT

Jan. 2006 - PRESENT

- Team leader for the implementation of software and data integration solutions in multiple EU-funded projects
- Extensive knowledge of middleware technologies, data integration patterns, and methodologies for building system architectures
- Important contributions in the preparation and the implementation of European projects proposals
- Trying to increase the popularity of functional programming, reactive programming, streaming and big data technologies, and [Domain Driven Design](#)

### Institute of Computer Science, FORTH

Heraklion, Crete, Greece

#### SOFTWARE ENGINEER

Jan. 2001 - Dec. 2005

- Implementation of health informatics applications and services using well known standards such as [HL7](#) and [IHE](#)
- Implementation of a service oriented architecture for the realization of the Integrated Electronic Patient Health Record by the means of [CORBA](#) and [SOAP Web Services](#) middleware technologies
- Finally, settling on [REST](#) and HTTP-based APIs (e.g. [Atom](#) publishing protocol, [RSS](#))

### Freelance

Heraklion, Greece

#### Web and Desktop developer

2011-2016

- Build multiple websites for private customers using PHP.
- Develop a big standalone (desktop) application using PostgreSQL and C++/Qt

### University of Athens

Athens, Greece

#### Teaching experience

1996-1998

- Teaching assistant for the undergraduate course "The C Programming Language"
- Teaching assistant for the course "Internet technologies"

## Skills

<b>Programming</b>	Clojure, Common Lisp, <a href="#">Scheme</a> , Java 8 ( <a href="#">RxJava</a> ), Python, Node.JS, C/C++
<b>Web</b>	<a href="#">Elm</a> , <a href="#">ClojureScript</a> (with <a href="#">Reagent</a> and <a href="#">re.frame</a> ), Html5, Javascript, PHP
<b>Databases</b>	PostgreSQL, MySQL, RDF Triplestores ( <a href="#">Sesame</a> , <a href="#">Jena</a> ) and their query language ( <a href="#">SPARQL</a> ), Cassandra, MongoDB, Redis
<b>“Middleware”</b>	<i>Resource oriented</i> : <a href="#">REST</a> , HTTP-based using JSON or XML, <i>Messaging</i> : RabbitMQ, MQTT, <i>Classical RPC</i> : CORBA (now obsolete?), <a href="#">Apache Thrift</a> , <a href="#">Avro</a>
<b>“Data Science”</b>	<a href="#">R</a> , Python <a href="#">scikit/learn</a>
<b>Languages</b>	English (fluent), Greek (native)

## Publications

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Available at [Google Scholar](#).