



# Livathinos Nikos

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**Birth date:** 26 February 1981

- Software Architecture design and implementation with emphasis on system efficiency and optimizations.
- Strong understanding of Design Patterns, Algorithms and Data Structures and be able to implement and apply them.
- More than 5 years experience in Software Development and leading the team.
- Excellent academic background in Computer Engineering (GPA: 9.17 out of 10) with many Scholarships and Distinctions (more than 10).
- Self motivated and disciplined. Ability to turn an idea into a real software system.

## EDUCATION

- **2004-2006:** Master in Computer Science and Engineering, Department of Computer Engineering and Informatics, University of Patras. Grade A.
- **1999-2004:** Diploma in Computer Engineering and Informatics, Department of Computer Engineering and Informatics, University of Patras. GPA: 9.17 of 10. Rank: 2<sup>nd</sup>.

## TECHNICAL SKILLS

- **Programming languages:** Java, C++, C, C#, PHP, Pascal, GWBasic.
- **Database Management Systems:** DB2, SQL Server, MySQL, PostgreSQL, Oracle, MS Access.
- **Platforms:** Java (J2EE, J2SE, Swing, JDBC, Web Services (REST - Jersey), J2ME, Servlets, JSP), .NET (ASP.NET, ADO.NET), STL.
- **Internet technologies:** Javascript, HTML, CSS, XML.
- **Testing and performance evaluation tools:** JUnit, JMeter, Selenium.
- **Software development environments:** Eclipse, Visual Studio, Netbeans.
- **Web Servers/Application servers:** Apache Tomcat, Apache web server, IIS.
- **Operating Systems:** Windows (Windows 7, XP), Windows Server (2008, 2003), Linux (Ubuntu, Fedora).
- **Software tools:** Network Simulator, Matlab, Adobe Photoshop.

## PROFESSIONAL EXPERIENCE

**8/2011-today:** International Business Machines (IBM). Zurich Research Laboratory. Software Engineer - Team Leader.

- Responsible for the architectural design and implementation for the Middleware (2<sup>nd</sup> tier) of CrystalPlus2, a 3-tier application for financial analysis based on user defined selection criteria and scoring rules.
- Supervising and training other junior developers.
- Software development with emphasis in performance optimizations and code reusability.
- Data caching and SQL query optimizations for faster response.
- Dynamic scoring for business performance and financial analysis reports.
- Integration of data which come from different data providers and unification of records into the same logical entity (Record Linkage)

- Faceted search and user customized view of the data.
- User access control according to each geographic location and system operation.
- Give presentations and support the product in front of the clients.
- Taking interviews for new hires and support my manager into taking technical decisions.

**1/2007-7/2007:** Talent Information Systems S.A. Senior Software Engineer.

- Development of 2D graphics library for mobile phones (polygon triangulation, line stroke, line labeling).
- Optimizations for limited resources devices (40% reduction on map storage space need).
- Research, design and development of a string index, customized for data stored in mobile phone's RMS.
- Implementation of mobile device communication with external GPS receiver through Bluetooth.
- Implementation of routing and GeoCoding – GeoDecoding.
- Database schema design (PostgreSQL).

**7/2001-7/2004:** AHEAD Relationship Mediators S.A. Senior Software Engineer.

- Lead developer of the "Instant Commerce Server (ICS)" suite. The main product of the company (about 13000 lines of PHP code). Web services which embed e-commerce, e-auctions and demand aggregation functionality to independent websites.
- Designed and developed the "Trade Game". Company's most important asset which led to a 100.000 Euros financing by the European Union.
- Designed and implemented e-transaction payment module based on ProxyPay3 payment system.
- Redesigned and implemented e-transaction payment module based on ClearLink payment system.
- Implementation of e-commerce functionalities: Shopping basket, administration of transactions, users, products and categories, automatic email communication, transactions' history and statistics.
- Design and implementation of multilingual module (used as an underlying layer to other projects).
- Design and implementation of demand aggregation and e-auctions payment modules (extending ICS capabilities).
- Database schema design and maintenance (SQL Server and MySQL).
- Research and development of a PHP library to generate Flash content from database retrieved data.
- Training of 3 junior developers.

**11/2009-8/2011:** Ministry of Education, Secondary Education. Informatics Professor.

**3/2010-8/2011:** Technological Educational Institute (TEI) of Ionian Islands. Laboratory associate.

**8/2007-6/2009:** Social service (military service obligation). Website design and implementation.

**5/2000-7/2000:** Multilab Scientific and Technological Equipment S.A. Computer and network technician.

## LANGUAGES

- English (Advanced – Level C1) – Certificate in Advanced English, University of Cambridge (Grade B).
- German (Beginner – Level A1)
- Greek (Native).

## SCHOLARSHIPS / AWARDS / DISTINCTIONS

**2009:** Supreme Council for Civil Personnel Selection (ASEP). Success in written exams for the hiring of educators in Informatics. Final grade 90.23 of 100 (rank 3), subject grade 93,75 of 100 (Rank: 1<sup>st</sup> Greek national record).

**2007:** Alexander S. Onassis Foundation. Scholarship for PhD studies in Greece.

**2007:** Technical Chamber of Greece. Award for excellent academic achievements for the year 2003-2004.

**2006:** Operational Programme for Education and Initial Vocational Training. Scholarship for postgraduate studies.  
**2005:** Alexander S. Onassis Foundation. Scholarship for postgraduate studies in Greece.  
**2005:** State Scholarships Foundation. Award for the first record during academic year 2002-2003.  
**2004:** Bodossaki foundation. Scholarship for postgraduate studies in Greece.  
**2004:** State Scholarships Foundation. Scholarship for the academic year 2002-2003 (1<sup>st</sup> rank).  
**2003:** First substitute scholar for the academic year 2001-2002 (3<sup>rd</sup> rank).  
**2002:** State Scholarships Foundation. Scholarship for the academic year 2000-2001 (2<sup>nd</sup> rank).  
**2001:** State Scholarships Foundation. Scholarship for the academic year 1999-2000 (2<sup>nd</sup> rank).  
**1998:** Honorable distinction from the City of Patras for entering University.  
**1997:** State Scholarships Foundation. Scholarship for the school year 1996-1997 (first among 900 students).  
**1996:** State Scholarships Foundation. Scholarship for the school year 1995-1996.

## PERSONAL ACADEMIC PROJECTS

**2008-today:** "EXAMS – EXTensible Animator for Mobile Simulations". Research, design and implementation on a new visualization tool for NS-2 mobile simulations. An open source Java project designed and implemented exclusively by me. It is available online at [http://www.livathinos.gr/EXAMS\\_overview.aspx](http://www.livathinos.gr/EXAMS_overview.aspx).

- Visualize NS-2 trace files and enable a full playback of the simulation process. Ideal to help researchers develop new routing protocols for mobile networks or study existing ones.
- Modular architecture which enables the integration of a new protocol implementation to existing EXAMS classes through Java Reflection.
- Smart indexing technology for fast jumps with minimum memory overhead (can easily handle files some GB's large).
- Published at the 17th Annual Meeting of the IEEE International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS 2009).

**2005-2009:** "CONOS: Structured Routing in Wireless Ad Hoc Networks". Conception, design and implementation of CONOS protocol for structured routing in wireless ad hoc networks. Developed as an NS-2 module in C++.