

# Curriculum vitae

1	<i>Family name:</i>	Bakalov
2	<i>First name:</i>	Petko
3	<i>Date of birth:</i>	27-February-79
4	<i>Nationality:</i>	Bulgarian
6	<i>Education:</i>	<ul style="list-style-type: none"> <li>• <b>PhD</b> Computer Science <b>2003 – 2008</b> University of California Riverside</li> <li>• <b>MS</b> Computer Science <b>1996 – 2001</b> Technical University of Sofia</li> </ul>

## 7. Language skills:

<b>Bulgarian</b>	Native language
<b>English</b>	Very good
<b>Russian</b>	Good
<b>Deutsche</b>	Basic knowledge

## 8. Research and papers:

Areas of research - Database management systems, Spatial databases, Spatiotemporal databases and Spatiotemporal knowledge management. Currently doing research in the UCR Database Lab under the guidance of professor Vassilis Tsotras.

- **Efficient Trajectory Joins using Symbolic Representations** - Petko Bakalov, Marios Hadjieleftheriou, Eamonn Keogh, Vassilis Tsotras, UC-Riverside MDM 2005 (to appear)
- **A model of a offline replication system** Petko Bakalov TU Sofia - Proceedings of the 4th international conference on Computer systems and technologies: e-Learning 2003

## 9. Teaching Experience Record:

<i>Date: From/To</i>	2003/ September – now
<i>Location:</i>	Riverside USA
<i>University:</i>	University of California – Riverside
<i>Position:</i>	Teaching Assistant
<i>Courses</i>	<ul style="list-style-type: none"> <li>• <b>2003 Fall</b> -CS 120b Introduction to embedded systems</li> <li>• <b>2004 Spring</b> -CS 166 Database Management Systems</li> <li>• <b>2004 Summer</b> -CS 005 Introduction to Computer Programming</li> <li>• <b>2004 Fall</b> -CS 179g Project in Databases</li> <li>• <b>2005 Winter</b> -CS 166 Database Management Systems</li> </ul>
<i>Development environments</i>	Aldec VHDL, Postures, Visual Basic, C++

<i>Date: From/To</i>	2000 September / 2003 June
<i>Location:</i>	Sofia, Bulgaria
<i>University:</i>	Technical University – Sofia
<i>Position:</i>	Teaching Assistant
<i>Courses</i>	<ul style="list-style-type: none"> <li>• <b>2000 Fall</b> Computer networks</li> <li>• <b>2001 Spring</b> Industrial Computer networks</li> <li>• <b>2003 Spring</b> Industrial Computer networks</li> </ul>
<i>Development environments</i>	Hardware – TSX –17 Controller Software – LADDER , Grafcet

## 10. Professional Experience Record:

<i>Date: From/To</i>	1999 March / 2003 September
<i>Location:</i>	Sofia, Bulgaria
<i>Company:</i>	Fadata Ltd.
<i>Position:</i>	Database Developer Database Designer
<i>Major Projects</i>	<ul style="list-style-type: none"> <li>• INISIS - Insurance information system for Armeec, DZI, QBE-Europe, Omnisig</li> <li>• RDM – Offline database replication system for DZI</li> <li>• SAPARD – Information system about the Bulgarian ministry of agriculture</li> </ul>
<i>Development tools</i>	Oracle Developer 9i, Oracle Developer 6 , Oracle Designer 2000

11. *Development tools experience:*

<b>Group</b>	<b>Tools</b>
<b>Programming languages:</b>	<ul style="list-style-type: none"> <li>• SQL, PL/SQL</li> <li>• C, C++, Pascal, Prolog</li> <li>• Grafcet , Ladder, VHDL</li> <li>• HTML, Java Script, JSP</li> </ul>
<b>Databases:</b>	<ul style="list-style-type: none"> <li>• Microsoft Access, MS SQL Server</li> <li>• Oracle 8i DB, Oracle 9i, Oracle 10</li> <li>• BerkleyDB, PostgreSQL</li> </ul>
<b>Operating systems:</b>	<ul style="list-style-type: none"> <li>• MS DOS</li> <li>• MS Windows 95/98, NT 4, 2000 / 2003 Professional , XP Professional</li> <li>• Linux Red Hat 9, Mandrake, Fedora 2</li> </ul>
<b>Other development tools:</b>	<ul style="list-style-type: none"> <li>• Oracle Developer 9i, Oracle Developer 6 , Oracle Designer 2000</li> <li>• JDeveloper, JBuilder</li> <li>• Delphi v5.0 Delphi v7.0</li> <li>• Microsoft Visual Studio 6 Microsoft Visual Studio .NET</li> <li>• SQL Plus, SQL Navigator</li> <li>• MS SQL Query Analyzer, Enterprise Manager</li> </ul>
<b>Other tools experience</b>	<ul style="list-style-type: none"> <li>• Microsoft Office products (Excel, Word) v95/97/2000</li> <li>• Adobe Photo Shop v2.5/3.x/4.0</li> </ul>

12. Graduate Courses Taken

- CS 236 Data Base Management Systems
- CS 235 Data Mining Techniques
- CS 253 Distributed Systems
- CS 255 Computer Security
- CS 220 Synthesis Of Digital Systems
- CS 204 Advanced Computer Networks
- CS 215 Theory Of Computation
- CS 218 Design & Analysis Of Algorithms

13. For contact [pbakalov@cs.ucr.edu](mailto:pbakalov@cs.ucr.edu)

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