

Kaloian Manassiev

Resume

1. Contact Information

Name: Kaloian Manassiev
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2. Education and Research Experience

Degree:	MSc in Computer Science (January 2004 – June 2005)
Institution:	Department of Computer Science, University of Toronto
Supervisor:	Prof. Cristiana Amza (amza@eecg.toronto.edu)
GPA:	4.0
Convocation Expected:	November, 2005
Thesis Topic:	Scalable and Highly Available Database Replication through Dynamic Multiversioning.

Awards:	University of Toronto Research Assistantship (2004/2005) \$19,000 CAD p.a. NSERC PGS-M (2005). Value \$17,300 CAD
Activities:	Teaching assistant for: CSC191 - Computer Algorithms, Data Structures and Languages (Winter 2004); CSC369 - Operating Systems (Summer 2004); CSC207 - Software Design (Summer/Fall 2004, Winter 2005)
Degree:	BSc in Computer Science (October 1999 – October 2003)
Institution:	Faculty of Mathematics and Computer Science, University of Sofia
Date of Graduation:	October, 2003
GPA:	5.65 / 6.00 (Subject grades) 5.63 / 6.00 (State examination)
Activities:	Teaching Assistant for "Object-Oriented Programming in C++" (Winter, 2001 - 2002)

3. Other Experience

Duration:	May, 2005 – September, 2005
Position:	Visiting Graduate Student
Company:	IBM Toronto Labs Centre for Advanced Studies (www.ibm.com/ca)
Research Topic:	Implementation and evaluation of an automated buffer-pool warm-up strategy for the secondary database node in DB2 High Availability Disaster Recovery configurations.
Duration:	January, 2003 - December, 2003
Position:	Senior Software Engineer (permanent position)
Company:	Sciant Ltd. (www.sciant.com)
Duties:	Technical support of Pi Mistral, software for running windtunnel aerodynamics tests. Evaluated, designed and worked on client requests for addition of new features to the system. Designed and developed customised Windows Installer deliverables. End clients included the motorsport teams of Jaguar Racing, Renault F1, BAR and ARC

Indianapolis.

Jointly with Pi Research Ltd. (www.pi-research.co.uk), a Ford Motor Company Group.

Technologies: Visual C++, Visual Basic, COM, ActiveX, Win32 API, ATL, WTL; Object-Oriented Design, Real-Time Systems, CAN hardware technologies;

Duration: September, 2002 - January, 2003

Position: Software Engineer (internship position)

Company: Sciant Ltd. (www.sciant.com)

Duties: Designing and implementing sensor data processing and visualisation extensions for Pi Mistral, software for running windtunnel aerodynamics tests. End client was Jaguar Racing.

Jointly with Pi Research Ltd. (www.pi-research.co.uk), a Ford Motor Company Group.

Technologies: Visual C++, Visual Basic, COM, ActiveX, Win32 API, ATL, WTL; Object-Oriented Design, Real-Time Systems, CAN hardware technologies;

Duration: February, 2001 - September, 2002

Position: Software Engineer (internship position)

Company: Sciant Ltd. (www.sciant.com)

Duties: Implementation of data processing and visualisation components for Pi Toolbox, an integrated system for analysing offline and real-time telemetry data, targeted for the motor racing sports industry (Formula 1, Indy).

Jointly with Pi Group Ltd. (www.pigroup.co.uk), a Ford Motor Company Group.

Technologies: Visual C++, COM/DCOM, OLE, ActiveX, Win32 API, ATL, WTL; Object-Oriented Design, UML;

Duration: April, 2000 - February, 2001

Position: Software Engineer (internship position)

Company:	Sciant Ltd. (www.sciant.com)
Duties:	Outsource development for Mercury Interactive Inc. Implemented add-ins and third-party product integrations for Mercury Test Director 7, a suite for automating the software testing process.
Technologies:	Borland Delphi 4.0; COM/DCOM, ASP, MTX, Perl, UNIX Shell Scripting; Rational ClearCase Object Model, Rational ClearQuest Object Model; Object-Oriented Design;

4. Publications

4.1. Submitted to Refereed Journals

- **Kaloian Manassiev** and Cristiana Amza. (2005) *Scalable Database Replication through Dynamic Multiversioning*. In Proceedings of the 15th International Conference of the IBM Centre for Advanced Studies (CASCON 2005), Richmond Hill, Ontario, Canada, October 2005.
- **Kaloian Manassiev** and Cristiana Amza. (2005) *Scalable In-Memory Database Replication through Distributed Multiversion Concurrency Control*. 22nd International Conference on Data Engineering (ICDE 2006). (Submitted for publication, June 2005)
- Gokul Soundararajan, **Kaloian Manassiev**, Jin Chen, Ashvin Goel, and Cristiana Amza. (2005) *Feedback-based Scheduling for Back-end Databases in Shared Dynamic Content Server Clusters*. (short paper and poster) IEEE International Conference on Autonomic Computing (ICAC 2005).
- Rosalia Christodouloupoulou, **Kaloian Manassiev**, Angelos Bilas, Cristiana Amza. (2004) *Fast and Transparent Recovery for Continuous Availability*. 6th Symposium on Operating Systems Design and Implementation (OSDI'04). (Submitted for publication, May 2004)
- **Kaloian Manassiev** and Hans-Arno Jacobsen. (2004) *Publish/Subscribe Paradigm for Time Series Data: Evaluation of Two Spatial Search Algorithms*. 2nd Workshop on Spatio-Temporal Database Management (STDBM'04). (Submitted for publication, May 2004)

4.2. Technical Reports

- **Kaloian Manassiev** and Cristiana Amza. (January 2005) *Scalable Database Replication through Dynamic Multiversioning*. Computer Systems Research Group Technical Report (CSGR-520).

5. References

- Cristiana Amza, Assistant Professor, Department of Electrical and Computer Engineering, University of Toronto (amza@eecg.toronto.edu)
- Hans-Arno Jacobsen, Assistant Professor, Department of Electrical and Computer Engineering, University of Toronto (jacobsen@eecg.toronto.edu)
- Ventsislav Potchekanski, Technical Director, Sciant Ltd. (v.potchekanski@sciant.com)