

Gal Niv

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OBJECTIVE To utilize high level programming in a software development team to create innovative software.

SKILLS *Computer languages and technologies:*

Proficient with: C, Java, HTML, Flash, SQL, PHP

Experienced in: C++, J2EE/Servlets, Visual Basic, ASP, CSS, JavaScript, AJAX

Platforms Windows, Linux, OS X

Language: Fluent in English and Hebrew

PROJECTS “*Semantic-Aware Remote Replication*”, Master Thesis (In progress)
Design and implementation of a novel approach to remote replication of files, by means of modification of existing open-source replication software at the block device level, as well as Linux file systems.

Skills gained:

- Proficiency in C.
- Experience writing, modifying and interacting with block device drivers.
- Knowledge of file system internals and replication mechanisms.

“*RecipeWare: an XML-based recipe management software*”, Semester Project
Worked as part of a team to design and implement program logic in Java for a Model-View-Controller pattern. The project involved implementing the retrieval and parsing of XML documents, supporting unit conversions between multiple ingredients and integrating with external View-Controller components.

Skills gained:

- Experience reading and writing XML using Java.
- Experience designing a practical system to match the specific needs of a customer.
- Collaborating with students within a group, as well as amongst different groups.

EDUCATION

Expected Sept 2008 Master of Science, Computer Science, University of Massachusetts, Amherst
Working with Dr. Prashant Shenoy, Laboratory for Advanced Systems Software
GPA 3.683

2003 - 2006 Bachelor of Science, Computer Science, University of Massachusetts, Amherst
GPA 3.573 (Cum Laude)

2001 - 2003 Associate in Science, Computer Science, Massachusetts Bay Community College

RECENT EMPLOYMENT

2006 - 2008 Teaching Assistant for courses in data structures, computer graphics, information systems, networks
Maintain course website, teach discussion sections and assist students
Research Assistant at the Laboratory for Advanced Systems Software
Develop replication software and modify the Linux kernel

CONFERENCES AND PUBLICATIONS

2007 “*Distributed Data Management for Storage-centric Sensor Networks*”
Devesh Agrawal, Yanlei Diao, Deepak Ganesan, Gaurav Mathur, Gal Niv and Prashant Shenoy
Poster at the 4th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2007), Cambridge MA, April, 2007.

2006 “*The Case for Semantic Aware Remote Replication*”
Xiaotao Liu, Gal Niv, K. K. Ramakrishnan, Prashant Shenoy and Jacobus Van der Merwe
2nd International Workshop on Storage Security and Survivability (StorageSS 2006), Alexandria, VA, October 2006.

References on request

last updated May 2008