

SANDOR DORNBUSH

COMPUTER SKILLS

JAVA ⇒ J2EE, Swing

XML ⇒ XPath, XQuery

PHP

C/C++ ⇒ Symbian

Machine Learning

VB, VB.NET

SQL ⇒ Oracle, MySql

Data Mining

UML

WORK EXPERIENCE

University of Maryland Baltimore County

Research Assistant – eBiquity Group

Catonsville, MD

May 2005 – Current

- Develop semantic web search engine.
- Develop ubiquitous computing applications and artifacts.

Software Engineer – Office of Information Technology

September 2004 – May 2005

- Develop and maintain php scripts.

Convera Inc.

Software Engineer

Columbia, MD

December 2003 – September 2004

- Maintain and improve legacy search engine.
- Develop C code on a 12 year old code base.

NeoCore Inc.

Research Software Engineer

Colorado Springs, CO

January 2002 – March 2003

- I worked directly for Chris Brandin, the founder and CTO, to experiment and to develop a strategy to sell to regulated industries. We successfully targeted automotive and pharmaceutical. Through my experimentations I invented what became the NeoCore Insight product.
- I created the vision, gathered requirements, implementing the product, and sold the product to clients as well as oversaw the documentation and test. Insight is a Java data-mining client for the XMS database.

Software Engineer

July 2001 – December 2001

- Worked on a team to develop the NeoCore XMS, a native-XML database and associated API's. The database server and client API's where written in Java, C++ and C code including a J2EE implementation of the server.

Kbkids.com

Software Engineer and Quality Assurance Engineer

Denver, CO

September 1999 – February 2000

- Design, build and implement a JAVA sales reporting daemon, and corresponding internal web pages.
- Check Oracle DB validity.
- Test web content, using electronic bug reporting systems.

University of CO Mechanical Engineering

Software Engineer and Programmer

Boulder, CO

December 1998 – June 1999

- Design, build, and implement a neural network application. The program I wrote WaterFall will learn any non-linear pattern in any data set.
- The application was written in JAVA with a Swing UI.

Wyndemere Inc.
UNIX Programmer

Boulder, CO
January 1998 - May 1998

- C++, Unix shell and TCL and TK programming and testing.
- Worked with several teams to write and maintain code for a project with the FAA, involving several large real time applications.

EDUCATION

School	Location	Graduating Year	GPA	Major/Program
University of Maryland	Baltimore County	2006	3.7	Computer Science
University of Colorado	Boulder	2001	3.2 Major:3.5	Computer Science
George Washington HS	Denver	1997	3.7	International Baccalaureate

Masters Thesis

I developed a system that uses a standard GPS driving aid, augmented with peer-to-peer wireless communication. The proposed system uses a combination of distributed clustering and epidemic communication to find and disseminate dynamic traffic patterns. This system could provide more accurate and complete traffic monitoring than existing systems.

PUBLISHED WORK

- "StreetSmart Traffic: Discovering and Disseminating Automobile Congestion Using VANET's" – *In proceedings of 2007 IEEE 65th Vehicular Technology Conference VTC2007-Spring*, Dublin, Ireland, April 2007
- "XPod a human activity and emotion aware mobile music player" – *In proceedings of Workshop on Ambient Intelligence. Held in conjunction with the 20th International Joint Conference on Artificial Intelligence Workshop on Ambient Intelligence*, Hyderabad, India, January 2007
- "Integrating Ecoinformatics Resources on the Semantic Web", *Proceedings of the 15th International World Wide Web Conference*, May 2006,
- "XPod a human activity and emotion aware mobile music player" - *Proceedings of the 2nd International Conference on Mobile Technology, Applications and Systems*, November 2005

AWARDS RECEIVED

- **Best PhD. Research** – UMBC Computer Science Graduate Research Conference 2007
- **First Place** – UMBC Business plan competition 2007
- **Best Master's Research** – UMBC Computer Science Graduate Research Conference 2006
- **Third Place** – Greater Baltimore Tech Council Mosh Pit Business plan competition 2006
- **Second Place** – UMBC Business plan competition 2006
- **First Place in the Senior Division** – University of Denver High School Mathematics and Computer Programming Contest 1997