

Joseph F. Catalano

CONTACT INFORMATION

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EDUCATION

University of Maryland, Baltimore County, Baltimore, Maryland

M.S., Computer Science, August 2004

- Thesis: "An Incremental Approach to Motif Discovery in Multivariate Streaming Time Series"
- Advisor: Tim Oates

University of Massachusetts, Amherst, Massachusetts

B.S., Computer Science, May 2002
Minor: Mathematics

PROFESSIONAL EXPERIENCE

University of Maryland, Baltimore County, Baltimore, Maryland

CORAL – Cognition, Robotics and Learning Lab, Principle Investigator: Tim Oates

Graduate Research Assistant

August 2002 - present

Research in the area of unsupervised discovery of patterns in time series with emphasis on real-time speech audio segmentation. Platform development for visualizing relational data with uncertainty and change over time. Project development in C and C++ on both Mac OS X and Linux. Under contract of ARDA (Advanced Research and Development Activity), a research arm of the National Security Agency and the National Geospatial-Intelligence Agency.

University of Maryland, Baltimore County, Baltimore, Maryland

Department of Computer Science and Electrical Engineering

Volunteer Service

August 2002 - present

Designed and deployed new department website with an emphasis on a professional visual style and consolidation of content for easier navigation and retrieval. My primary responsibilities were the technical and visual design aspects.

In addition, I've taken on the responsibilities of system administrator for the CORAL and Maple labs. Our setup consists of a Mac OS X server and 15 - 20 Linux and Windows XP workstations as well as a few Mac OS X based laptops. Services provided include single-sign on, web, email, remote access, printing, and back-up.

Jericho Public Library, Jericho, NY

Consultant

September 1998 - present

Design and maintenance over multiple revisions of the library's website and intranet. Provided technical advice ranging from purchasing to systems and network configuration suggestions.

<http://www.jericholibrary.org>

University of Massachusetts, Amherst, Massachusetts

EKSL – Experimental Knowledge Systems Laboratory, Principle Investigator: Paul R. Cohen

Undergraduate Research Assistant

February 2001 - May 2002

Performed research in the area of computer planning and control, simulation, and analysis of time series. Research was performed within the framework of a war-gaming simulator. Coding performed in ANSI Common Lisp on the Macintosh platform.

Office of Space Management and Campus Planning, Amherst, Massachusetts

Staff Programmer

October 1999 - December 2000

Primary responsibility was development of a Java based application interface to the campus space inventory database which was hosted on Oracle 8i/Windows 2000 Server. Final application was deployed as 3-tiered solution using Java RMI and JDBC. Other duties included assisting staff creating reports using Seagate Crystal Reports, and the design and deployment of office websites. Development was done on Windows using the Macromedia design suite and deployment was to a UNIX system. <http://www.umass.edu/cpsm/>

TEACHING
EXPERIENCE

University of Maryland, Baltimore County, Baltimore, Maryland

Graduate Teaching Assistant

August 2002 - December 2002

Taught a discussion section for an introductory computer science course. Was also a TA for the undergraduate artificial intelligence course. Duties included teaching, grading assignments and exams, developing lecture material, and holding office hours. Developed a multi-player, TCP based version of the popular board game "Empire Builder" as a platform for developing intelligent software players, to be used as the class project. Game development entirely in ANSI Common Lisp with an OpenGL based game visualization component.

University of Massachusetts, Amherst, Amherst, Massachusetts

Undergraduate Teaching Assistant

January 2002 - May 2002

Duties included grading assignments and exams, holding office hours, writing project assignments and coding project solutions. Project development in Java.

COMPUTER SKILLS

- Languages: C/C++, Java, Objective-C, ANSI Common Lisp, XML, HTML/CSS, SQL
- Development Platforms: JSP, PHP, .NET, JDBC, Java RMI
- Platforms: Mac OS X/Classic, Linux, Windows, Oracle.
- Statistical Packages: some experience with SAS and Minitab.

AFFILIATIONS

Association for Computing Machinery (ACM)
American Association for Artificial Intelligence (AAAI)

HONORS AND
AWARDS

Client for undergraduate software engineering course at UMBC, 2004
Treasurer – Computer Science and Electrical Engineering Graduate Collective, 2003 - 2004
Computer Science Talent Advancement Program, 1998

REFERENCES

Will be furnished upon request.