

Mihai Christodorescu

1038 E Gorham St # 1, Madison, WI 53703, (608) 658 – 3671
MIHAI@CS.WISC.EDU, HTTP://WWW.CS.WISC.EDU/~MIHAI

Education

- ✓ Courses: Programming Languages and Compilers ♦ Advanced Topics in Programming Languages and Compilers ♦ Principles of Programming Languages ♦ Operating Systems ♦ Advanced Operating Systems ♦ Computer Architecture ♦ Advanced Computer Architecture ♦ Advanced Algorithms and Data Structures ♦ Foundation of Scientific Computing ♦ Data Structures and Algorithms ♦ Compilers and Translation of Programming Languages ♦ Software Engineering ♦ Automata and Formal Languages ♦ Logic Design and Switching Theory ♦ Theory of Programming Languages ♦ Machine Intelligence

Ph.D. Computer Science, May 2005

UNIVERSITY OF WISCONSIN AT MADISON
Computer Sciences Department

Sept. 1999 ⇒ present

Bachelor of Science in Computer Science, June 1999

UNIVERSITY OF CALIFORNIA AT SANTA BARBARA
Computer Science Department

Sept. 1996 ⇒ June 1999

Graduated with *High Honors*. Leader of the University's ACM Regional Programming Contest team in 1998. Very active in multiple student organizations (please see next pages for more details).

POLYTECHNIC UNIVERSITY OF BUCHAREST, ROMANIA
Computer Science Department

Sept. 1995 ⇒ June 1996

Took part in the ACM Regional Contest as member of the University's team.

COMPUTER SCIENCE HIGH SCHOOL, BUCHAREST, ROMANIA

Sept. 1990 ⇒ June 1995

Courses in programming (Basic, Pascal, dBase/FoxPro, C). Attested as a Computer Operator in the senior year.

Job History & Experience

Senior Software Engineer at YODLEE INC.

May 2000 ⇒ June 2001

Redwood City, CA. Optimized a web-based data extraction system for maximum performance. Researched ways to connect web-based transactional systems in a reliable way. Designed and oversaw the implementation of an extranet service with multiple data output formats (HTML, XML). Employer web page: <http://www.yodlee.com>

Embedded systems developer at GREEN HILLS SOFTWARE

April 1999 ⇒ June 1999

Santa Barbara, CA. Worked on porting the old cross-platform linker (written in C) to a new object-oriented linker (written in C++). Optimized linker for speed and for code efficiency. Analyzed several embedded CPUs for commonalities to be used in the new linker. Employer web page: <http://www.ghs.com>

Application developer at ZBE

February 1999 ⇒ April 1999

Goleta, CA. Converted software for printer control and spooling utilities for high-performance and high-quality specialized printers from C to C++. Studied old code for reusability capabilities. Employer web page: <http://www.zbe.com>

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SNA Server developer at **MICROSOFT** June 1998 ⇒ Sept. 1998 (summer internship)
Redmond, WA. Completely redesigned the single sign-on user management system, improving the response time as well as the recoverability of the Host Security product. Learned new technologies in a short amount of time (such as COM, DCOM, OLE, and OLEDB). Analyzed and proofed the code against threading issues, resource contention, and timing issues. Employer web page: <http://www.microsoft.com>

NT systems developer at **PONTIS RESEARCH INC.** June 1997 ⇒ June 1998
Camarillo, CA. Specialized in distributed security in heterogeneous environments, with emphasis on NT security and integration of security systems. Tested CTOS-to-NT security interface. Developed and tested NT NetWare Single Sign-on! product. Developed a transaction based unified NT security API with rollback capabilities. Employer web page: <http://www.pontisresearch.com>

Web designer at **UNIVERSITY OF CALIFORNIA AT SANTA BARBARA** Nov. 1996 ⇒ June 1997
School of Environmental Science and Management, Student Computing Facilities. Managed the departmental network of Windows NT, Windows 95, and PowerPC computers. Designed web pages for internal use (help pages), as well as a prototype for a database with web interface. Employer web page: <http://www.bren.ucsb.edu>

Test technician at **ADVANCED MOTION CONTROLS** Sept. 1995 ⇒ Sept. 1996
Camarillo, CA (manufacturer of high-power electronic amplifiers). Tested the products on computer, using DAQ in-house developed software. Improved the testing technology with regard to speed and accuracy. Full time employment. Employer web page: <http://www.a-m-c.com>

Skills and Research Interests

Research:

- ✓ programming languages
- ✓ analysis of software systems (specifically with respect to security properties)
- ✓ compiler optimizations
- ✓ software development tools
- ✓ optimal user interfaces for software development

Programming Languages:

- ✓ self-taught: JAVA ♦ C++ ♦ PERL ♦ SQL
- ✓ C ♦ PROLOG ♦ PASCAL
- ✓ highly proficient in JAVA, C++, and C

Systems:

- ✓ JAVA 2 platform
- ✓ 6 years of significant experience with UNIX (SOLARIS, LINUX, HP-UX)
- ✓ experience with X WINDOW SYSTEM API ♦ UNIX system internals ♦ LINUX
- ✓ network programming ♦ Internet protocols
- ✓ HTML 4.0 (including CSS and DHTML) ♦ JAVASCRIPT
- ✓ 8 years of experience with WINDOWS 3.1 / 95 / NT / 2000, DOS
- ✓ (D)COM ♦ OLE
- ✓ Microsoft Windows API for Windows 95 (Win32), Windows NT 3.51–4.0 (Windows networking, Windows NT security), Windows 2000

Software design:

- ✓ object-oriented design and analysis (OOD, OOA)
- ✓ component models
- ✓ excellent programming expertise
- ✓ quick understanding of new technologies and algorithms

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Awards and Exceptional Achievements

- ✓ vice president of Tau Beta Pi, the National Engineering Honor Society (UCSB chapter)
- ✓ chair of ACM, the Association of Computing Machinery (UCSB chapter)
- ✓ nominated selected several times for Dean's Honor List at UCSB
- ✓ leader of UCSB's ACM intercollegiate programming contest team
- ✓ working in the spare time on home-grown projects, ranging from new paradigms in IDEs, to code checking tools, and to implementing experimental OS concepts
- ✓ foreign languages currently spoken: French, and Romanian