

ERNEST S. COLANTONIO

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EXPERIENCE

March 2011 – Present: Oregon State University, CEOAS

Faculty Research Assistant

Conduct independent, original research on new and emerging technologies and their application to Earth system science. Develop and plan life-cycle projects. Design or enhance and implement enterprise-class web applications. Create effective and innovative solutions to meet scientific objectives. Compile and analyze project data.

June 2008 – March 2011: Oregon State University, Graduate School

Information Technology Manager

Maintained the Graduate School's web presence and services; created web applications in PHP/MySQL, including a new Graduate Faculty Database; supported the student information system (Banner SIS) and document imaging and workflow processing system (Nolij); developed data warehouse queries; identified innovative technological solutions for the leadership team.

Dec. 2006 – June 2008: Western Washington University, Academic Technology

Web Systems Analyst

Researched, developed, deployed, and evaluated web technologies for the Integrated Laboratory Network (ILN) project, a National Science Foundation funded initiative with the objective of providing remote access to scientific instrumentation, expertise, and instructional materials.

Dec. 2001 – Dec. 2006: University of Wisconsin-Madison, Waisman Center

Senior Information Manager

Developed and managed database and web applications primarily for institute administrators, as well as providing technical support and programming for researchers.

Nov. 1994 – Aug. 2001: University of Wisconsin-Madison, Waisman Center

Information Manager

Developed and managed database and web applications for researchers and administrators.

May 1987 – Oct. 1994: Self-employed

Computer Textbook Author

Wrote more than 10 introductory college textbooks on computers and applications.

Oct. 1983 – Apr. 1987: University of Illinois at Urbana-Champaign, Department of Psychology

Research Associate

Developed system and application software for psychology research projects.

May 1982 – Oct 1983: Illinois State Geological Survey

Research Assistant

Developed database and graphics software for oil, gas, and coal exploration.

Aug. 1981 – Dec. 1982: University of Illinois at Urbana-Champaign, Dept. of Computer Science

Graduate Teaching Assistant

Taught three introductory computer science courses for non-technical majors.

EDUCATION

Aug. 1992 - May 1994: University of Wisconsin-Madison

M.S. Computer Sciences

Database systems, programming languages, compiler construction, artificial intelligence

Sep. 1989 - May 1991: University of Wisconsin-Green Bay

Post-baccalaureate courses in math and computer science

Aug. 1981 - May 1983: University of Illinois at Urbana-Champaign

Post-baccalaureate courses in computer science

Aug. 1977 - May 1981: University of Illinois at Urbana-Champaign

B.S. Psychology

Dean's List last 5 semesters

TECHNICAL SKILLS

- Web development and programming (HTML/ XHTML, XML, CSS, PHP, JavaScript)
- Web server administration (Apache)
- Database design and implementation (MySQL, SQL Server, MS Access)
- Database programming (SQL, Transact-SQL, PHP/MySQL)
- Enterprise software (Banner Student, Noli Document Imaging & Workflow Processing)
- Operating systems (Windows, Mac OS, MS-DOS, Linux, OpenVMS)
- Software design and development
- Programming/scripting languages (PHP, C/C++/C#, VBScript, Visual Basic, Pascal, Fortran, 80x86 assembler, JavaScript, Perl, VMS DCL)
- Computer graphics
- Development of instructional materials
- Teaching application packages and programming in high-level and assembly languages

SELECTED PUBLICATIONS

- Colantonio, E. (2010).
Web-based Technologies for Online Labs. In D.A. Cancilla and S.P. Albon (Eds.),
*Moving the Laboratory Online: Situating the Online Laboratory Learning Experience for
Future Success* (pp. 23-235). Newburyport, MA: Sloan Consortium.
- Shiflet, A.B., Allex, C.F., Colantonio, E.S., and Ts'ao, H. (1995).
*Instructor's Manual to Accompany Problem Solving in C Including Breadth and
Laboratories*. Minneapolis/St. Paul, MN: West Publishing Company.
- Colantonio, E.S. (1992).
Microcomputer Concepts and Special Applications. Lexington, MA: D.C. Heath and
Company.
- Slotnick, D.L., Butterfield, E.M., Colantonio, E.S., Kopetzky, D.J., and Slotnick, J.K. (1990).
Computers and Applications with BASIC: Second Edition. Lexington, MA: D.C. Heath
and Company.
- Colantonio, E.S. (1989).
Microcomputers and Applications. Lexington, MA: D.C. Heath and Company.