



Work Experience

University of Washington, Computer Science & Engineering Department, Autumn 2006 - present

Lecturer in Computer Science & Engineering. Courses taught:

CSE 142 (Introduction to programming I), CSE 143 (Introduction to programming II),
CSE 190 M (Web Programming), CSE 303 (C/Unix Software Tools),
CSE 403 (Software Engineering).

Committee member for undergraduate admissions and undergraduate curriculum

Faculty advisor for ACM, ACM-W student organizations, 2007-2009

Judge, ACM local programming competition, UW-Seattle, Autumn 2005-2009

University of Washington-Tacoma Institute of Technology, 2004 - 2006

Lecturer in Computing and Software Systems. Courses taught:

TCSS 142 (Introduction to programming I), TCSS 143 (Introduction to programming II),
TCSS 305 (Programming Practicum), TCSS 342 (Data Structures and Algorithms),
TCSS 360 (Software Engineering).

Undergraduate Lab Mentorship Program faculty leader

Women in Computing Sciences (WICS) faculty advisor

Consortium for Computing Sciences in Colleges (CCSC-NW) 2005 presenter, "What's New in CS1 and CS2."

Placement / Assessment Exam active faculty committee member and exam author

Microsoft Corporation, August 2003 - September 2004

Software Design Engineer for Microsoft Office Excel Business Intelligence Team.

University of Arizona, Computer Science Department, Spring 2002 - Summer 2003

Part-time Instructor in Computer Science (courses in Java OO design, system organization, C# / .NET development).

University of Arizona, Computer Science Department, Fall 1999 - 2003

Graduate Student Research in geometric algorithms, security, obfuscation and watermarking (2001 - 2003);

Section Leader Coordinator manager of approx. 30 teaching assistants for four CS courses at U. Arizona (Spring 2001);

Section Leader (Undergraduate Preceptor / TA) for courses on programming and Java OO design (1999 - 2001).

Publications and Research

A "CS 1.5" Web Programming Course. Published at SIGCSE 2009: <http://www.sigcse.org/>

Web Programming Step by Step textbook (ISBN 978-0-578-01239-1): <http://www.webstepbook.com/>

Building Java Programs Java CS1 textbook (ISBN 0321382838): <http://www.buildingjavaprograms.com/>

Computing Fundamentals with C# CS1 textbook (ISBN 1-887902-52-X): <http://www.fbeedle.com/052-x.html>

"Growing Fat Graphs" at 9th Symposium on Graph Drawing: <http://www.cs.arizona.edu/~kobourov/research.html#fatedges>

Java obfuscation/watermarking algorithms for Sandmark platform: <http://www.cs.arizona.edu/sandmark/>

Research interests: computer science education, programming languages, compilers, security / obfuscation

Education

Master of Science in Computer Science, University of Arizona, 2001 - 2003: 3.90 GPA; 2230 GRE CAT

Bachelor of Science in Computer Science (Business minor), University of Arizona, 1997 - 2001: 3.89 GPA (Magna cum Laude)

Computing Skills

Languages: Java (9 yr), C/C++ (5 yr), C#, Perl, Python, MIPS/DLX asm, Icon, ML

Libraries: AWT, Swing, JDBC, Java3D, RMI, BCEL, BLOAT, OpenGL, sockets, lex/yacc, .NET 2.0, STL

OO Design: Patterns, UML, unit testing / test-first design

Web technologies: HTML, JavaScript, CSS, CGI, PHP, applets, servlets, JSP, XML, SOAP, ASP.NET

Awards and Membership

ACM member and SIGCSE attendee since 2001

UA Computer Science Graduate Teaching Assistant of the Year Award, 2002-2003

UA Computer Science Undergraduate Teaching Assistant of the Semester Award, Spring 2000

UA Academic Honor Roll; Phi Kappa Phi Academic Distinction Award; Dean's List with Distinction

Business College Dean's Honor List; Arizona Achievement Award

National Merit Finalist and National Merit Scholarship Winner, 1997

Examples of Work

Please visit my web site for links to course materials and samples of my work: <http://www.cs.washington.edu/homes/stepp/>

A list of example courses/projects completed is available at: <http://www.cs.washington.edu/homes/stepp/resume/work.html>