

TIMOTHY P. FARAGE

Senior Lecturer II, Computer Science Department

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PROFILE

Extraordinary 20 year career demonstrating hands-on capability to teach anyone who has the capacity to learn. Experienced at teaching a wide variety of academic subjects, based on real world experience in private industry, with a special passion for computer science, mathematics, and all the general sciences. Recipient of multiple teaching awards at the University of Dallas at Texas including the *President's Outstanding Teacher Award* for 2007-2008, the *Computer Science Excellence in Teaching Award* for 2003-2004, and has been nominated for the *University of Texas Regents Outstanding Teacher Award* for 2011-2012. Consistently among the finalists for these awards in subsequent years. A warm and engaging professional colleague who is also greatly valued by school administrators and highly sought after by students.

EDUCATION

M.S., Computer Science, University of Texas at Dallas, Richardson, TX

B.A., Mathematics Education and Psychology, Case Western Reserve University, Cleveland, OH

EXPERIENCE

UNIVERSITY OF TEXAS AT DALLAS, Richardson, TX

2000-Present (full-time)

Senior Lecturer II and Graduate Advisor, Computer Science Department

- Instruction given in Discrete Mathematics, Data Structures, Computer Architecture, Logic Design, Computer Networks, Java, C++, and Assembly Language
- Courses taught at both the undergraduate and graduate levels
- Won the *President's Outstanding Teaching Award* for 2007-2008
- Finalist for the *President's Outstanding Teaching Award* for 2008-2009
- Won the *Computer Science Excellence in Teaching Award* for 2003-2004
- Nominated for the *University of Texas Regents Outstanding Teacher Award* for 2011-2012
- Conducted editorial review of Computer Science textbooks for various publishers
- Lead modification of ABET objectives for Computer Networks/Discrete Mathematics
- Created an eLearning prototype and a model for its implementation in schools

- Graduate Student Advisor for graduate students in the Computer Science department
- Consistently ranked as one of the top lecturers in the computer science department

EDUCATIONAL TESTING SERVICE

2007-Present

Reader (grader) for the Computer Science AP Exam.

PRIVATE TUTOR

1995-Present

Tutor math from K-12 and university level through Calculus II and Linear Algebra. Also, tutor computer science, chemistry and physics.

INET TECHNOLOGIES, INC., Richardson, TX

1999-2001

A world leader in providing products that monitor and manage signaling systems used by telecommunications carriers.

Senior Software Engineer, GeoProbe Software

Responsible for the design, implementation, testing, debugging and enhancement of telecommunications software written in C++. Team lead of several software engineers.

- Increased utility of Call Detail Record (CDR) product to enhance usage value to customers. Collaborated with other team members to develop the appropriate software. Served as team leader, responsible for both internal and external beta testing of CDR product that was successfully marketed and generated income of over \$2 million.
- Developed, implemented, and tested code modifications in the GeoProbe system that resulted in software that provided additional functionality that was desired by our customers. As the GeoProbe system is an embedded, real-time, multi-processor system, this software was written to communicate with software on other GeoProbe processors. Used TCP/IP to communicate with customers' systems. Determined hardware architecture that would meet various customers' system needs.

RAYTHEON E-SYSTEMS, Garland, TX

1996-1999

A \$30 billion multi-national company that provides defense and business electronics applications as well as business aviation and special mission aircraft applications.

Software Engineer, Electronic Systems

Responsible for writing, integrating and testing electronic systems software written in C and used on numerous platforms.

- Developed, maintained and enhanced software that was the driver for the entire DSP process. This software (approximately 12,000 lines of code) was intended only to be used internally.

However, when customers found out about it, further modifications were made for eventual deployment to various locations throughout the world in the defense of the United States and its allies.

- Due to the time-consuming process of transferring data from Cray to Sun machines and vice versa, developed software using the RPC protocol that resulted in time-saving and easy-to-use software to accomplish the transfers.
- Developed server-side software that allowed clients to build, access and modify a database in real-time. Wrote corresponding client side library that allowed clients to make API calls to server functions.

COMPUTER SKILLS

Java, C++, C, MATLAB, Assembly Language
Experience with UNIX, Windows,
Experience on Sun machines, personal computers and Cray Super Computers in a
multiprocessor, real-time environment; SS7; TCP/IP

PROFESSIONAL DEVELOPMENT

Technical Managers Training Certification
Communications Skills Course
GeoProbe Manager Certification

PROFESSIONAL PRESENTATIONS

Speaker - World Future Society
*The Future of Computers and Related Technology in the
Future of Education*

Speaker – ECS Honors Society at The University of Texas at Dallas
Nuclear Power to the People

SECURITY CLEARANCE

SSBI