

Senior Software Engineer

Expertise

Database design and management, programming

Education

M.B.A. (MIS), 1988
University of Minnesota, Minneapolis, Carlson School of Management
B.S. (Civil Engineering), 1979
Universidade Federal de Minas Gerais, Brazil

Professional Experience

2007 - Present *Itasca Consulting Group, Inc., Minneapolis, Minnesota,
Senior Software Engineer*

2002 - 2007 *RenewData Corp., St. Louis Park, Minnesota
Senior/Lead Software Engineer*

1999 - 2002 *Pitney Bowes, Eden Prairie, Minnesota
Principal Engineer*

1996 - 1999 *Senior Software Engineer*

1994 - 1996 *Staff Software Engineer*

1988 - 1994 *Engenharia, Automacao e Controle - EAC, Sao Paulo, Brazil
Analyst/Programmer*

1987 - 1988 *The Minnesota Daily, The University of Minnesota, Analyst/Programmer*

Project Experience

Itasca Software Development — Software development activities associated with the following Itasca codes: BLO-UP 2.0, LOP, 3DEC and FLAC3D; creation of an automated build-and-test server for Itasca codes.

Research and Development

Software Design — Extensive database design and management; creation of the first prototype of RenewData Active Vault database schema, an Oracle database designed to minimize storage requirements for very large e-mail archives (currently being patented); participation in the design of a multi-tier, distributed, scalable, highly available transportation system (TMS) and a set of tools to integrate the TMS seamlessly with other host applications with minimal disruption of existing processes; redesign and normalization of existing databases to comply with relational database models; design and development of several GUI applications; design of scanner controller allowing applications with different bar-code configurations to run in the same computer with a single scanner, automatically resetting configurations between applications; design and development of a Virtual Device Driver (VxD) that allows a Windows based application to “screen scarp” another application; porting of EAC systems from DOS to UNIX; system-level support for Itasca codes.

Programming — Object-oriented programming, multi-thread programming, Agile Development; fluent in C/C++, Visual Basic/VBA, C#, 8086 Assembler.

Management — Led a team of developers in the design and development of middleware to integrate logistics systems with host applications via XML, ODBC and text files.