Ryan J. Wagner
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TECHNICAL SKILLS

- 10+ years professional software development experience
- Graduate level education in Computer Science and Mathematics
- Specializing in numerical analysis, algorithm development, high performance computing, machine learning, classification and forecasting
- Experienced in all aspects of the software development lifecycle; Agile methodology; CMMI Configuration Manager
- Python, Matlab, PV-WAVE, IDL, C/C++, PERL, Java, Cold Fusion, HTML, Javascript, CSS, PHP, Ruby, Fortran, Visual Basic, shell scripting, Oracle, MySQL, XML, MS Access, Linux, Solaris, Windows, system administration, FlexLM License Management, Install Anywhere, HDF, MPI, OpenMP, Wx, IMSL Numerical Libraries

WORK EXPERIENCE

2006 – 2011

Rogue Wave Software
Senior Support Engineer
- Designed and implemented a formalized, CMMI-compliant, QA process for 15 different products which reduced testing times and improved overall software quality
- Supported and maintained PV-WAVE and PyIMSL, high-level visual data analysis development environments as well as ThreadSpotter and TotalView memory debuggers
- Routinely handled technical matters such as code optimization, inter-application communication, license management, and general mathematics, statistics, parallel programming and memory debugging problems
- Added new features to the PV-WAVE language including financial charting, neural networks and MySQL database connectivity
- Software engineering consultant on projects for clients in various fields including finance, engineering, and aerospace

2006

Charles Jones Inc.
Software Engineer
- Maintained an upgraded an on-the-fly tax search document generation program
- Results were fetched from a database and inserted into reports which were emailed to customers.

2004 – 2006

6800 Capital Group LLC
Software Engineer
- Designed and developed "*Independence*," a test bed to simulate and evaluate the financial firm's various commodity-trading strategies
- Aspects of this project included algorithm, database and interface design, the importing, cleansing, and conversion of financial data, as well as financial charting.

2000 – 2004

D.A.D.T.
Software Engineer
- Developed, tested, and supported eight database backed form-based applications including scheduling, payroll, and contract systems as well as online registration pages and searchable directories

2002 – 2003	ScheduleAgent.com	Software Engineer / Co-founder
2000 – 2001	Uniflex Data Systems	Support Engineer
1998 – 2000	TLC Computers	Software Engineer

EDUCATION
2006 – 2009	University of Colorado, Boulder, CO
2004 – 2006	Rutgers University, New Brunswick, NJ
2000 – 2004	The College of New Jersey, Ewing, NJ
	B.S. Computer Science

PUBLICATIONS
• Math Libraries for Windows HPC: A White Paper for Microsoft

• A Model of USENET Newsgroup Dynamics: Implementation and Results.
Presented at the 2003 Natural Language Database Conference Cottbus, Germany.

• Dense Matrix Multiplication: From Theory to Practice, Serial to Parallel.

• Automatic Detection and Classification of Cancerous Regions in Mammograms
using Convolutional Neural Networks

• Researcher for MySQL: The Complete Reference by Claud Seidman, Pamela Smith.