

Lewis Ross Raszewski, Jr.

3147 Tilden Dr.
Baltimore, MD
410-889-8348
443-414-6449

rraszews@trenchcoatsoft.com
<http://www.trenchcoatsoft.com>

Summary Well-rounded Computer Scientist and Information Security Expert with minors in Mathematical Sciences and Philosophy. Experienced with web and database development. Intimate knowledge of software engineering and maintenance, operating systems and programming languages, as well as mathematical expertise in linear algebra, multivariable calculus, statistics, and cryptography. Adept problem solver with a broad range of knowledge.

Education

Johns Hopkins University (Baltimore, MD)
September 2001-May 2004
Master of Science in Security Informatics, May, 2004

Loyola College in Maryland (Baltimore, MD)
July 1997 - May 2001
Bachelor of Science degree with honors in Computer Science, minors in Mathematical Science and Philosophy
3.9 Cumulative GPA
Dean's List
Summa Cum Laude
Upsilon Pi Epsilon Honor Society in Computer Science
Phi Beta Kappa
Distinguished Achievement in Computer Science 1998, 1999, 2000, 2001

Publications

- An Application of Amorphous Slicing To Regression Test Cost Reduction*. (With D. Binkley and C. Smith)
Proceedings of MASPLAS 2000.
- An Implementation of and Experiment with Semantic Differencing*. (With D. Binkley, C. Smith, R. Capellini)
Proceedings of the 2001 IEEE International Conference on Software Maintenance, Florence, Italy,
November 2001, pp. 82-91.
- An Empirical Study of Amorphous Slicing as a Program Comprehension Support Tool*. (With D. Binkley, C. Smith, and M. Harman) Proceedings of the IEEE Eighth International Workshop on Program Comprehension, Limerick, Ireland, June 10-11 2000, pp. 161-170.

Professional Experience

Valpac, Inc. (Federalsburg, MD)
1997-2005
Web site designer, Internet Consultant: designed and constructed valpac.com internet page
Computer Consultant: routine maintenance and repairs to computer systems
Network Consultant: designed and constructed company intranet
Software developer: Designed and built DX-42 Particle Size Analyzer
Designed and built inventory control software using SQL and software database interaction

H&R Retail (Timonium, MD)
2004-2005
IT Consultant / Network Administrator -- Windows
Performed major revisions to company website
Maintained UNIX-based web server, firewall, router, and server appliance
Overhauled company intranet and branch office VPN
Responsible for day-to-day maintenance of over 20 computers in 2 offices
Advised purchasing decisions on 2 new machines

Built Access database of shopping center tenants mining data from multiple sources
Built Access database of DC area restaurants
Set up remote user access to corporate intranet via IPSec and PPTP based VPN connections
Built branch office server with distributed file system
Technical support for Palm and Blackberry handheld devices

Johns Hopkins University (Baltimore, MD)

2001-2003

Research Assistant for Johns Hopkins University Information Security Institute

Developed secure peer-to-peer and distributed networking software in UNIX environment.

Loyola College in Maryland (Baltimore, MD)

1998-2001

Research Assistant for Dr. D. Binkley

Developed software for amorphous slicing experiment which improved test subjects' ability to find errors in code by 20%

Findings presented at Mid Atlantic Student Workshop on Programming Languages And Systems (**MASPLAS**) 2000

Hauber Summer Research Fellowship

Developed slicing-based technique for regression test cost reduction which reduced regression testing costs by 30%

System Administrator -- UNIX

Computer Science Department Alumni server, Computer Science Department Usenet server.

Primary duties involved adding and removing user accounts, job control, monitoring backups, defining and enforcing security policies, applying kernel patches and upgrades.

References

Provided upon request.

Projects

DX-42 Particle Size Analyzer: Modular Java and C++ application to perform analysis on images of colloid solutions (as from a digital microscope) to generate detailed statistical summaries of particle size distribution. Designed for Valpac, Inc.

CanDy: Object-oriented distributed workgroup development environment for telecommuting software design teams. Features include persistent file and resource store, groupware, illustrated text messaging and conference room, multi-user UML prototyping, distributed whiteboard and annotated code walk-through feature. Designed as Master's project.

Skills

Operating Systems

MS-DOS; Windows 3.1, 95/98, NT, Me, 2000, XP, Windows Server 2000, Windows CE 3.0; Solaris; GNU/Linux; Unix

Programming languages and software packages

Extensive experience with C/C++, Java, Perl, HTML, Visual Basic 5/6, Visual Basic for Applications, oCaml, Lex/Yacc, UNIX scripting languages, MS Office suite, PowerPoint, Access, Outlook, Matlab, UML, Object Oriented Design, software engineering, network administration, software testing, database design and development of database applications

Significant experience with 80x86 assembly, SQL, Microsoft Exchange, Windows Server 2000

Familiar with .NET framework, JVM, Swing, embedded Visual Basic.

Some experience with computer engineering, including basic component installation and hardware troubleshooting, embedded systems security, Windows CE development, WEP development.