

ATANAS M. DIMITROV

Permanent Address

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OBJECTIVE

I am a highly motivated job candidate with strong background in Computer Science, seeking professional career in the Information Technology field, which utilizes my great ability to work in a dynamic team environment.

EDUCATION

The University of Georgia, Franklin College of Arts and Sciences

Athens, GA

Master of Science in Computer Science

- Overall GPA: 3.80
- Teacher's Assistant for the following classes: Introduction to Personal Computing, Software Development, Computer Networks, and Compilers

Georgia College and State University, School of Liberal Arts and Sciences

Milledgeville, GA

Bachelor of Science in Computer Science

- Overall GPA: 3.20
- International Student Scholarship

RESEARCH

- Host-based Intrusion Detection Systems (Thesis work)
- (Distributed) Denial of Service Attacks
- File System Forensic Analysis
- Scalable Multimedia Network Architectures

COMPUTER SKILLS

- **Operating Systems:** Solaris 7 through 10 (sparc and x86), Red Hat Linux 5 through 9 (x86), SuSE Linux 7.0 through 10.0 (sparc/x86), OpenBSD 3.5 through 4.3, Mandrake Linux 8.0(x86), Mac OS X 10.3 through 10.5, Windows 3.1, 95, NT, 98, Me, 2000 (Server), XP, Vista
- **Programming Languages & Related Software/Standards:** C, C++, x86/sparc assembly, Java, Perl, make, autoconf, libtool, ld, CVS, gdb, adb, gcc, cc, g++, Executable and Linkable Format, mach-o Runtime Architecture, Flex, Lex, Bison, Yacc, Tcl, Eclipse, Natural, FOP, XSL
- **UNIX/Linux/Windows Shell Scripting & Shells:** Korn (ksh), Bourne (sh), Bourne Again (bash), C (csh), Enhanced C (tcsh), Z (zsh), DOS Shells (cmd, command)
- **Server Software:** Apache, Tomcat, Sendmail, OpenSSH, SAMBA, NFS, LPRng, CUPS, ipchains, ipfilter, postgresql, MySQL, DB2, Informix etc.
- **Web Development:** HTML, SSI, XML, CSS, PHP, CGI, Java, Spring, Java Script, Java Applets, SQL, Flash, Adobe Photoshop, Gimp, AJAX, DWR, JSON, BIRT
- ***Languages:** Bulgarian (native language), excellent English both spoken & written, proficient Russian, some German and French

RELATED EXPERIENCE

ADP Major Accounts – HR/B Employee

Norcross, GA

Software Engineer

June 2006 - Present

- Part of the Systems Team, with focus on business intelligence reporting and application security. Responsible for analyzing, creating and modifying future and existing business intelligence reporting functionality and remediating security issues, inside ADP Employee's on-line HRB management application
- Projects:
 - Performing Feature Leading role for common reporting data distribution project, which enables clients to have visibility to multiple product data sources. Leading development for data cataloguing, security design and web service implementation. Coordinating with multiple teams across ADP located in multiple geographic regions within the US and Brazil
 - Performing Feature Leading role for security remediation efforts in the HRB application focused on client and third party file uploads and system-wide deployment of virus scanning functionality
 - Performing Feature Leading role for custom reporting for one of ADP Employee's largest clients

- Performed a Leading Developer role in the deployment and implementation of a business intelligence solutions to provide customers with flexible and scalable employee turnover reporting platform
- Performed crucial Developer role in the following projects with responsibilities' main focus is on backend design, implementation and deployment
 - Designing and implementing reporting application rights framework
 - Redesign and re-implementation of the reporting framework web interface and backend functionality
 - Deploying existing reporting modules to other parts of the application
 - Design and development of multiple reporting infrastructure enhancements projects
- Participated in managing and supporting the product wide multi-release continuous integration platform

Administrative Information Systems – EITS/UGA

Athens, GA

Intern/Student Worker

May 2005 – May 2006

- Participated in team effort to successfully develop and/or update and maintain Online Insurance Management System, Online Position Posting and Applicant Management System, Online Vehicle Reservation System for The University System of Georgia
- Installed, secured and serviced departmental staff computers
- Updated departmental website

Sodexo Campus Dining Services/GC&SU

Milledgeville, GA

Webmaster

March 2000 – August 2004

- Designed, developed, and maintained web sites for four major Sodexo Campus Dining branches: Georgia College & State University, Augusta State University, Middle Georgia College, and Gordon College

Math and Computer Science Department/GC&SU

Milledgeville, GA

Lead Systems Administrator

August 2001 - December 2003

- Headed and coordinated the UNIX system administrators group. Managed Sun Enterprise-2500, Sun Blade-1000, Sun Ultra-60, Sun Sparcstation-20, and other departmental UNIX and Linux servers
- Developed, secured, and automated system procedures at the administrative and user levels: user account management, centralized authentication management over ssh, automated tape and network backup procedures, Xwindows environment configuration start-up scripts, daemon initialization and shutdown scripts, mailing lists and alias management procedures, interactive boot time error detection scripts, interface initialization scripts, log processing scripts, scheduled system maintenance procedures, others

University Library/GC&SU

Milledgeville, GA

Assistant Systems Librarian

August 2000 – January 2002

- Participated in a system management team
- Maintained Linux and Windows servers and workstations located within the GC&SU library
- Designed and configured load balancing printing queue, using LPRng, to serve the needs of multi-user computer environment

PROJECTS

- HAI-IDS – host-based intrusion detection system for Linux
- Network IDS with focus on (Distributed) DoS using Client-Puzzle Systems using MD5 client puzzles
- Viewcore – software, which displays ELF and macho core dump files' content in readable form
- Developed loadable kernel modules to replace native system calls under Linux
- Racal InterLan Under Linux HOWTO - configuration of Racal InterLan cards under Linux
- Detected “SSH Restricted Shell Escaping Command Execution” vulnerability
- Created image processing software to perform fundamental image manipulation operations
- Designed network flow simulation scripts using Tcl for Network Simulator 2
- Developed scanner and parser engines for Micro-C
- Designed and developed internet proxy server with local caching
- Re-developed the TCP sub-system portion of the Linux kernel
- Designed and developed heuristic DES decryption algorithms
- Developed network port scanner for BSD based systems using the Berkley Packet Filter interface

PRESENTATIONS

- "Mitigating the impact of DoS and DDoS - Protecting the server"
- "Developing Linux shell code on x86 platforms"
- "Obfuscating and de-obfuscating x86 binaries under Linux"
- "Denial of service attacks over the network - DoS and DDoS"
- "Creating RPM files under Red Hat Linux"
- "Fractals and their applications in image processing"
- "AJAX, DWR, JSON – Introduction, deployment and implementation"
- "BIRT – The benefits of open source business intelligence reporting tools"
- "Secure Server Side Handling of File Uploads"

MEMBERSHIPS, ACTIVITIES AND AWARDS

- Member of Central State Linux Users Group (CSLUG)
- Member of the Mathematics Honors Society
- Member of International Student Club
- First Place Award - GC&SU Computer Programming Contest
- Systems Administrator for Southern Programming Competition
- Science Judge for the Regional Science & Engineering Fair