

MATTHEW WADE FLAHERTY
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OBJECTIVE:

To secure a full-time software engineering position at an industry leading company that provides the opportunity for the advancement of a broad technical career in emerging technologies, remaining grounded in computer and network security.

EXPERIENCE:

9/01 -PRESENT

SENIOR SOFTWARE ENGINEER (ARCHITECT), IBM CORPORATION – Westford, MA

Security architect and developer for IBM's Lotus Notes, currently identifying and architecting security integration points between Java, Eclipse, and the Notes client, with the intention of delivering solutions for an integrated Lotus Notes release, named 'Hannover'. Responsible for defining the Lotus requirements on and participation in the Eclipse open source process with respect to security. Previously responsible for designing, architecting and developing security solutions for the Lotus division's next generation collaborative application, Lotus Workplace, built on the IBM WebSphere, IBM WebSphere Portal, and OTI Eclipse platforms. Successfully sized, detailed and assigned security tasks delivered for the short development cycles of Lotus Workplace 1.1, 2.0, 2.5 and 2.6. Independently created tooling to enhance development team productivity, including build scripting, test harnesses, and IDE integration. Represented Lotus at several large, high-visibility onsite customer sales support calls. Invited to be a part of IBM's Technical Resource program, a fast-track program for fostering future IBM senior technical leadership.

3/00 –9/01

PRINCIPAL SOFTWARE ENGINEER, IRIS ASSOCIATES – Westford, MA

Software firm responsible for the development of Lotus Notes and Domino. As a key member of the Iris Security Group, was the lead engineer responsible for designing and implementing security features in the HTTP server task during the Lotus Notes & Domino 5.0.x and 6.0 release cycles. Addressed all issues pertaining to authentication and authorization. Implemented password management features for both Web and Notes clients. Assisted in architecting and subsequently implemented a secure and interoperable single sign-on solution for Lotus Domino and IBM WebSphere. Designed and implemented the front end for the Domino Certificate Authority, both the Notes administrator experience and browser client interface. Was tasked with understanding and investigating security issues that arose during the assessment of the integration of a J2EE environment into Domino.

5/98 – 3/00

SENIOR QUALITY ENGINEER, IRIS ASSOCIATES – Westford, MA

As technical lead for the Iris Security QE group, was primarily responsible for testing Notes' X.509, S/MIME and PKIX implementations by writing automated C/C++ API tests for these features. Designed and implemented fixes for bugs uncovered in server based password checking and PKCS12 file handling. Assisted coworkers with designing manual tests and automation for their security related features.

SKILLS:

DEVELOPMENT LANGUAGES – Java (J2SE/J2EE/J2ME), UML, XML, HTML, Ruby (inc. Rails), C, C++, LotusScript, Visual Basic, UNIX shell, Perl, Scheme, Pascal

SOFTWARE APIS – Eclipse SWT, OSGi, RSA BSAFE 3.0 and TITEM 2.0, Van Dyke Associates S/MIME Free Library 1.4, OpenSSL, IBM “Jonah” PKIX implementation, Baltimore Technologies PKI-PLUS Toolkit

SOFTWARE PACKAGES – Eclipse Workbench, IBM WebSphere Studio Application Developer, IBM WebSphere Device Developer, Rational XDE Developer/Software Architect, Lotus Notes/Domino, IBM WebSphere Application Server, IBM WebSphere Portal Server, Lotus Workplace, GNU EMacs, Atria Clearcase UCM, GNU CVS, Subversion, Apache Tomcat, Apache Web Server, Microsoft Visual Studio, PVCS, Microsoft Office Suite, Adobe Photoshop

DEVELOPMENT ENVIRONMENTS – Windows XP/2000/NT, Windows 98/95, Linux (esp. Slackware, Redhat & Suse), Solaris (SPARC/x86), IBM AIX, HP-UX, OS/2, MacOS

NETWORK PROTOCOLS – TCP/IP, Microsoft Networks, Samba, NIS/NIS+, NFS, IPX/SPX, Novell NetWare

TRAINING:

CUSTOMER RELATIONS/PUBLIC SPEAKING – Attended Lotusphere Europe ‘99 in Berlin and Lotusphere 2000 and 2002 in Orlando. Participated in extensive hands-on “Meet the Developers” lab sessions at all conferences. Took part in several technical presentations, including being a member on Iris’ security expert panel. Addressed conference rooms containing upwards of 500 Notes/Domino application developers and customers.

CRYPTOGRAPHY – Attended MIT Summer Professional Program graduate course 6.82s, “Cryptography and Computer Security.” Covered topics such as mathematical logic and proofs as it relates to cryptography, encryption, authentication, key distribution and management, zero knowledge protocols and pseudo-random number generators.

EDUCATION:

1/07 – PRESENT

S.M., MASSACHUSETTS INSTITUTE OF TECHNOLOGY – *Cambridge, MA*
Currently enrolled in the System Design and Management program jointly offered by the Sloan School of Management and Engineering Systems Division. Expected graduation is January 2009.

9/94 – 5/98

B.S.C.S., SYRACUSE UNIVERSITY – *Syracuse, NY*
Four Year Private Liberal Arts University located in Syracuse NY. Graduated from the L.C. Smith College of Engineering and Computer Science with a bachelor’s degree in Computer Science, and a minor in Mathematics.

AWARDS:

SCHOLARSHIPS - Syracuse University Deans Scholarship, National Merit Corporation Corporate Scholarship
AWARDS - Advanced Placement Scholar Award

REFERENCES:

References are available upon request.