

Jonathan Elsas

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OBJECTIVE

To obtain a challenging research and development position in data mining, text mining, or natural language processing and contribute my proven Java programming and performance engineering skills.

SKILLS

Programming Languages:

- Java expertise includes server-side programming, performance tuning and optimization, web service development and client-server programming.
- SQL experience includes database setup and maintenance as well as use in dynamic web page creation.
- Perl experience includes file manipulation and formatting.
- Other experience includes VoiceXML (VXML), XML, shell scripting, PHP, JavaScript, C/C++, OpenMP, HTML.

Programs:

- Experience building, installing, and deploying with Apache Web Server and Tomcat Servlet engine.
- Working knowledge of MS Visual Studio, Eclipse, and other IDEs.
- Experience building web services using Oracle and MySQL databases for dynamic content.

Operating systems:

- Comfortable developing on Unix (Solaris), Linux, Mac OS X, Windows 95, 98, NT, 2000 and XP.

WORK EXPERIENCE

Senior Consultant

Covansys, Cary, NC (January 2003 – May 2003)

- Extended and maintained enterprise-class VoiceXML interpreter. Responsibilities included integrating Nuance speech recognition engine, performance analysis and tuning, and evaluating and developing automated testing mechanisms.
- Technologies included: VoiceXML, Java, XML and XSLT.

Java Developer and Performance Engineer

Lucent Technologies, Cary, NC (September 2000 – November 2002)

- Programming Accomplishments: Gained extensive experience with multi-threaded server-side Java programming using both HTTP and other TCP based protocols. Created a dynamic e-Mail, news and weather reader VXML service using Java Servlets, JDBC, SQL and Velocity. Developed several re-usable and modular messaging API's. Created successful prototypes which are used for tradeshow and customer showcases.

- Performance Engineering Accomplishments: Designed and implemented memory and CPU optimizations to existing Java servers, dramatically improving performance. Created performance and stability models for existing and proposed software. Created performance test plans and test drivers. Executed micro-benchmarking tests for use in evaluating alternative designs and technologies. Wrote performance evaluations and reports based on performance testing results.
- Other Accomplishments: Effectively took on a leadership role, providing mentoring and product design direction to other programmers. Gave technical talks to Java developers on web-based VoiceXML service development, Java optimizations and performance tuning. Regularly led technical discussions.
- Projects included: next-generation prototype for an internet call waiting service; e-business proactive help system; Java API for SMPP (Short Message Peer to Peer Protocol); VXML voice gateway; CORBA-based telecom-network access gateway based on the open PARLAY standard.

Automation Analyst

Acadia Insurance Company, Westbrook, ME (May 1999 – August 2000)

- Developed, enhanced, tested, and implemented software for entry, processing, and statistical reporting of insurance policy information using a COBOL based programming language. Compiled and analyzed data for management reports using MS Excel and MS Access.

Math Tutor

Carleton College Math Skills Center, Northfield, MN (March 1995 – May 1998)

- Tutored individuals and groups in Calculus, Linear Algebra, and introductory math.

EDUCATION

University of North Carolina, Chapel Hill, NC

Master of Science in Information Science expected Spring 2005.

Research interests include text mining, machine learning, natural language processing. Coursework includes data mining, natural language processing, parallel and distributed computing, and statistics.

Carleton College, Northfield, MN

B.A. in Mathematics received in June 1998. *sigma xi, cum laude*

Senior project on minimizing faces of convex N-dimensional shapes. Coursework included computer programming using Pascal.

Other Classes and Training:

Programming with C++, Java programming, Java security, and Java language and Java VM performance tuning.