Adam L. Speight

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Objective

To obtain a challenging short-term position developing software using object technologies

Education

- **Ph.D. Mathematical Finance**, Carnegie Mellon University (part time)
- **M.S. Computational Mathematics**, Carnegie Mellon University, 2000
- **M.S. Operations Research**, University of Colorado at Denver, 1999
- **B.S. Mathematics with minor in Economics**, University of Colorado at Denver, 1997

Work Experience

Software Engineer/System Architect — **Origin Interactive Inc.**
Denver, CO — **May 2000 – Present**
Responsible for architecting and developing a theme and content generation system for a company that manages multiple e-commerce enabled websites. System was architechted using Java Servlets and XML/XSLT technology.

Mathematics Instructor — **Carnegie Mellon University**
Pittsburgh, PA — **Aug. 1999 – May 2000**
Taught multiple sections of a Calculus course to undergraduate students at CMU.

Software Engineer — **Raytheon Systems Company**
Denver, CO — **Sep. 1997 – Aug. 1999**
Responsible for developing software to be used in satellite mission management systems. The systems used integer programming and heuristic methods to schedule and make ad-hoc changes to allocations of ground and satellite resources. The code is composed of C++ and Java using CORBA and Object database technologies on a network of Sun servers and workstations.

Technical Skills

Languages: Java, C++, Fortran, MATLAB, Perl, LaTeX

Technolgies: J2EE (EJB, Servlets, JSP, JDBC, JMS),
XML/XSLT, Cocoon, SOAP, CORBA,
UML, Rational Rose, Rational Software Process

OS: Solaris, Linux, Irix, Windows NT

Other: Algorithm analysis and development, statistics, forecasting, optimization,
mathematical methods for finance

Refereed Publications

S.C. Billups, A. L. Speight, and L. T. Watson, 'Nonmonotone path following methods for nonsmooth equations and complementarity problems', M.C. Ferris, O.L. Mangasarian, & J.-S. Pang, eds., *Applications and Algorithms of Complementarity.* status: accepted.

Theses

Using Homotopy Methods to Solve Nonsmooth Equations, Masters Thesis, 1999
Results in Applying Linear Programming Methods to Abdominal Organ Segmentation, Undergraduate Honors Thesis, 1997

Presentations

International Symposium on Mathematical Programming, Laussane, Switzerland, *Linear Programming, Textural Information and Organ Segmentation*

Awards and Honors

Awarded a VIGRE fellowship by the mathematics department at CMU
B.S. degree granted with Magna Cum Laude honors

Security Clearance

Single scope background investigation (SSBI)