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PROFILE

I think big. I love to solve problems. I can bridge the gap between the personal and the technical, and intuit what matters most in complex situations.

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EDUCATION

**Columbia University - M.S. in Computer Science (2005) *cum laude***

Cumulative GPA: 3.94; Completed 3 years of coursework on MS/PhD track.

**University of Arizona - B.S. Physics and B.S. Mathematics (1997) *cum laude***

Cumulative GPA: 3.89; Full ride merit scholarship support for 4 years; Russian minor.

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EMPLOYMENT AND EXPERIENCE

**FX Alliance (FXall)**, New York City. Financial reporting consultant. (Jan - Aug 2006).

Columbia University (CU), New York City. Graduate Research Assistant, Department of Computer Science (2002-2005).

Independent consulting, Washington, D.C. MIS development and nonprofit program support (2001-2002).

**U.S. Civilian Research & Development Foundation (CRDF)**, Arlington, VA. Program Manager (1999-2001).

Los Alamos National Laboratories (LANL), Los Alamos, NM. Graduate Research Assistant (1997, 1999).

***Business process analysis and system design – FXall***

- Captained the analysis of complex, undocumented business data systems spanning multiple divisions.
- Initiated efforts to identify and map fundamental business processes for reengineering.
- Conceived & advocated systemic solutions for longstanding problems; created buy-in for solution planning/budgeting.
- Designed & executed legacy system reengineering: reduced complexity 5-fold, improved time performance 100-fold.
- Implemented new business reporting requirements in close coordination with executive management team.
- Mastered the production of executive-level financial and sales/services reports with minimal training.

***Program management and administration – CRDF***

- Reorganized and managed program for peer review of scientific proposals, quadrupling output in 18 months.
- Led 10-week effort soliciting 15,000 expert reviews for international grants competition.
- Won promotion from specialist to program manager in 11 months.
- Hired, trained and supervised program specialists and interns.

***Science, policy and government – As indicated***

- Conducted independent, published research on agent systems, learning and education policy at CU Agents Lab.
- Facilitated funding decision process for both private and governmental bilateral nonproliferation initiatives at CRDF.
- Strengthened professional relationships between CRDF and various government agencies and NGOs – including the Department of State, NSF, LANL, and Open Society Institute (Soros) – as scientific review liaison.
- Authored the software OS-plus-interface driving award-winning LANL technology for environmental remediation.

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PROFICIENCIES

Applications:	MS Office suite, MS Access, VBA/macros; Lotus Notes; MatLab; relational databases
Programming:	VB, Java, C/C++, SQL, LISP, HTML, LaTeX, scripting; NetLogo; modeling/simulation
Communication:	Writing; concept visualization; presentation design and delivery; collaboration, coauthorship

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SELECTED HONORS AND COMMUNITY INVOLVEMENT

- GK-12 Fellowship, Columbia University (2004) – Science & technology enrichment for NYC public schools.
- **U.S.-Indian Fulbright Fellowship** (1997) – Study of renewable energy & sustainable development in India.
- ❖ NYC: President of Columbia University Hiking Club: doubled hike participation to over 250 people yearly; initiated Earth Institute hikes and new outreach activities; trained hike leaders and drivers.
- ❖ DC: Volunteered an afternoon a week tutoring children at the Anthony Bowen YMCA's after-school program.

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Research publications and c.v. available at:

<http://www.cs.columbia.edu/~mdavies> [ Google “Mathew Davies” ]