

# Gregory Bayer

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<b>Relevant Experience</b>	<b>Sandia National Laboratories</b> <i>Senior Member of Technical Staff</i>		Livermore, CA Jan 2009 – Present
	<ul style="list-style-type: none"><li>• Leading Hadoop-based data mining and graph algorithms research team.<ul style="list-style-type: none"><li>◦ Working closely with both internal and external cyber security customers.</li><li>◦ Researching and implementing algorithms for large power-law skewed datasets.</li><li>◦ Developing interactive graph visualization tool based on Prefuse vis package.</li><li>◦ Developing machine-learning capability via Apache Mahout.</li></ul></li><li>• Leading development of terabyte-scale network packet analysis capability.</li><li>• Leading research effort to tightly integrate Hadoop and HPC systems.</li><li>• Purchased, deployed, and administered 70 node Hadoop cluster. Administered two smaller clusters.</li><li>• Compared Hadoop to commercial big-data appliances from Netezza, XtremeData, and LexisNexis. Published and presented results: <a href="http://bit.ly/d10ITy">http://bit.ly/d10ITy</a></li><li>• Developed capability to extract and collect malicious urls from spam and botnet generated email.<ul style="list-style-type: none"><li>◦ Efficiently collected over 5 million unique domains and urls.</li></ul></li></ul>		
	<b>Stanford University</b> <i>Computer Science Research Assistant</i>		Stanford, CA June – Dec 2008
	<ul style="list-style-type: none"><li>• Programmable Open Mobile Internet (POMI) researcher: <a href="http://cleanslate.stanford.edu/pomi2020/">http://cleanslate.stanford.edu/pomi2020/</a></li><li>• Developed distributed file system that enables users to stay in full control of their web data (PRPL).</li><li>• Developed Semantic Web-based access control module for PRPL.</li></ul>		
	<b>Sandia National Laboratories</b> <i>Member of Technical Staff</i>		Albuquerque, NM Aug 2004 – Sept 2007
	<ul style="list-style-type: none"><li>• Project Lead for Corporate Workflow project.<ul style="list-style-type: none"><li>◦ Led team of 5 developers on both the restricted and classified networks.</li><li>◦ Customized J2EE COTS Business Process Management (BPM) engine.</li><li>◦ Interfaced system with Sandia's infrastructure and 15+ custom applications.</li></ul></li><li>• Technical Lead for radiation dose calculation application.<ul style="list-style-type: none"><li>◦ Developed J2EE application to support dosimetry lab and 3000+ dosimeters.</li></ul></li><li>• Application deployment access control and tracking.<ul style="list-style-type: none"><li>◦ Developed middleware infrastructure to enable secure deployment of 150+ applications.</li></ul></li><li>• Critical reporting.<ul style="list-style-type: none"><li>◦ Developed web-based reporting application; interfaced with DOE systems.</li></ul></li><li>• Taught several classes and tutorial sessions on J2EE software development.</li><li>• DOE Q clearance.</li></ul>		
<b>Startups</b>	<b>Zeen Labs</b> <i>Co-Founder</i>	Mobile productivity application development. <a href="http://zeenlabs.com/zaptext/">http://zeenlabs.com/zaptext/</a>	Palo Alto, CA 2009 – Present
	<b>Ultimate Computer Services</b> <i>Founder</i>	Consumer IT consulting: Networking, web development, and training.	Brentwood, TN 1999 – 2004
<b>Education</b>	<b>Stanford University</b> MS Computer Science; <i>Specialization: Systems</i> <i>Advisor: Monica Lam</i> <i>Honors: Sandia Special Masters Fellowship</i>		Stanford, CA Sept 2007 – Dec 2008
	<b>University of Tennessee</b> BS Computer Science; Mathematics and German Minors <i>Study Abroad Year: University of Dortmund, Germany</i>		Knoxville, TN Aug 2000 – May 2004
<b>Projects</b>	Social Graph Visualization – <i>LinkedIn Connections / Clustering</i> ; iPhone / Facebook Development – <i>Social Gaming</i> ; Security Protocol Analysis – <i>Model Checking</i> ; Compilers – <i>Dataflow Analysis</i> ; Human Computer Interaction (HCI) – <i>“Design Thinking” / Prototyping / User Testing</i>		
<b>Skills</b>	Hadoop, HBase, Cassandra, J2EE, Objective-C (iPhone), SQL, LAMP, C, C++, Linux / Windows / OSX		
<b>Honors</b>	Lightspeed Summer Grant Program, Upsilon Pi Epsilon (ACM), Summa Cum Laude, Eagle Scout		