

Derek Mansen

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EDUCATION	<i>Bachelor of Science</i> , Software Engineering GPA: 3.9 Rochester Institute of Technology, Rochester, NY September 2005 - May 2010
SKILLS	<i>Programming Languages</i> Java, C#, C, Haskell, Erlang, Scala, Common Lisp, Scheme, Ruby <i>Tools and Development Environments</i> Eclipse, Linux / Unix, Mercurial, Git, Oracle and MSSQL databases
PROJECT EXPERIENCE	<div><div><i>Data Ontology Cache System</i></div><div>November 2010 - May 2011</div><div>Two Sigma Investments New York, NY</div><ul style="list-style-type: none">• Developed system for storing and querying an OWL-based ontology• Team-based project with students given full autonomy• Gathered requirements and developed an agile, risk-oriented process with iterative releases• Developed system for storage and analysis of massive quantities of semantic data• Worked with semantic data analysis technologies: OWL, RDF, Pellet, and Jena• Designed an ActiveMQ-based messaging system for communication between clients and servers• Designed and implemented replication system that replicated data and handled query load balancing across multiple servers</div>
PROFESSIONAL EXPERIENCE	<div><div><i>Associate Applications Engineer</i></div><div>June 2010 - Present</div><div>Oracle Corp., Primavera GBU Bala Cynwyd, PA</div><ul style="list-style-type: none">• Taking on many different roles as the need for them arises• Given ownership of a large subcomponent of the system soon after beginning employment• Developed critical data migration tool for customer use• Identified and fixed several large-scale performance bugs prior to release• Quickly acclimate and make meaningful contributions to the codebases of different products</div> <div><div><i>Software Engineering Intern</i></div><div>June 2009 - August 2009</div><div>Virtual Solutions Inc. Cambridge, MA</div><ul style="list-style-type: none">• Worked on several components of a production-ready C#/C++ system• Designed and implemented vector-based matching algorithm to align machine text on printed form• Created the character classification component of a neural network based character recognition system</div>

Software Engineering Intern

November 2008 - February 2009

General Dynamics Advanced Information Systems

Pittsfield, MA

- Developed embedded C++ code for use on a Naval vessel
- Implemented a state machine-based system which dispatched commands to Naval hardware
- Gained experience with POSIX programming: threads, synchronization, and memory management

**RESEARCH
INTERESTS**

Functional programming

Concurrent systems

Static type systems and analysis

Programming languages