Daniel Nesbitt

174 Morrison Ave.
Somerville, MA 02144
(706) 409-6961
dan.nesbitt@gmail.com

Experience

January 2011 – Present

Lead Software Engineer, *Genedata AG*.

- Delivered a major integration project that exceeded customer expectations and generated new revenue opportunities through project expansion and new customer interest
- Used Agile management techniques to keep the 4 month project on track despite customer delays
- Integrated new junior developers into the team record time with direct mentoring
- Designed an all-encompassing solution that reduced user workflow times by 90% by addressing issues beyond the functional requirements
- Implemented a plugin infrastructure for integrating new analysis options in Javascript
- Designed and provided technical oversight for the development of a web service layer as a Grails plugin for retieving available data as JSON with API security
- Created a system for streaming informatics data which reduced the application memory footprint by 98% in most cases and enabled more concurrent users

Software Engineer, *Genedata AG*.

- Wrote a class-loading infrastructure across RMI and JNLP for sandboxing class hierarchies derived from third party plugins which eliminated the unpredictable defects and costly workarounds caused by class shadowing issues
- Created an analysis for computing scoring for alternative splicing based on MiDAS method by Affymetrix with parallelism that scaled by 92%
- Wrote a visualization for displaying a heat map of alternative splicing activity with associated gene expression profiles in Java2D
- Implemented a thread safe remote message condenser to avoid flooding client connections with pushed feedback

January 2010 – December 2010

Software Engineer, *BioInquire LLC*.

- Initiated the design and implementation of a new quantitation algorithm
- Reverse engineered and implemented a parser for a vendor file format avoiding the need to license a costly third party solution
- Designed a new save file format to reduce space on disk by 40% for a medium sized project while increasing read/write efficiency
- Replaced an existing GUI model with an observer pattern based design to ensure consistent UI state
- Developed a workflow automation feature by providing command line processing for YAML based project configurations that were directly edited by end users

Education

2006 – 2009

Biochemistry & Molecular Biology, University of Georgia, Honors program, GPA: 3.95.

Computer Skills

Languages: Java, Groovy, SQL, Scala, HTML, CSS, Javascript

Technologies: Grails, Oracle, PostgreSQL, Play, MySQL