
EXPERIENCE:

Principle Analytics Engineer

Isobar

6/2008 to 1/2009

Supported Search Technology Group in development of online advertisement budget optimization product (iSEBA).

- Obtained comprehensive understanding of search engine market industry focusing on pay per click keyword bid optimization, increased knowledge of enterprise level Java tools.
- Managed agile development team responsible for analytical engine of iSEBA, coordinated with group lead to determine release schedule and features, identified long term goals and challenges.
- Enhanced data manipulation capabilities through learning advanced SQL syntax, using concepts such as joins, nested queries, and pivot tables, to aggregate multifarious records for detailed statistical analysis.
- Produced ongoing benefits by integrating data visualization techniques with greater explanatory power into research, simplified resolution of logical issues and better characterized algorithm sensitivity.

Senior Software Engineer

Raytheon

8/2005 to 12/2007

Supported Forward Based X-Band Radar (FBX-T) Discrimination Algorithms and Software Verification groups.

- Presented radar feature capabilities and supplied profiling data utilizing FBX-T discrimination algorithm simulation to improve software scalability research.
- Enhanced missile threat database by automating surface reflectivity associations through development of Java3D based modeling tool and incorporation of Six Sigma principles.
- Converted simulation functions into utilities for software verification environment by creating instrumentation scripts to document input/output parameters.
- Diversified analytically focused software engineering knowledge base by accepting numerous training opportunities including courses in UML, Design of Experiments, and Statistical Process Control.

Software Engineer

Dynamics Technology Inc.

1/2004 to 7/2005

\$30M Navy/Intelligence contractor specializing in signal processing and underwater sensor technology.

- Applied object oriented analysis and design concepts to implementation of distributed training application, provided real time multi-threaded message passing capability.
- Generated sensor mobility algorithms while developing underwater tracking simulation, adapted signal processing model from legacy Fortran implementation.
- Established standardized version management procedures and earned CMMI certification to evaluate policies through completion of in house training.
- Resolved imaging system particle detector spatial inaccuracies to authenticate calibration of fielded device and produce higher quality 3D mappings of relevant objects inside shipping containers.

Software Engineer

Sparta Inc.

6/2000 to 12/2003

\$160M Missile Defense Agency contractor focusing on BMC2 technologies.

- Developed simulation functionality and user interface for Project Hercules Bayesian Network modeling application, completed before scheduled release.
 - Researched and implemented mathematical algorithms including parametric spline interpolation, multivariate statistical distributions, and non-linear least squares regression.
 - Utilized JVMPI to design profiling tool, generated heap allocation diagnostics and provided greater control of memory management.
 - Supported maintenance of Commander's Analysis and Planning System (CAPS) by optimizing numerically inefficient routines and improving documentation.
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