Austin Maher

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Summary

Accomplished technical leader in projects delivering commercial applications.
Extensive experience with Java and object oriented systems.
Expertise developing distributed web-based applications.

Experience

The SAS Institute Cary, NC

Software Developer 5

10/09 - present

Member of the SAS Enterprise Case Management development team. Enterprise Case Management is a web-based application for identifying and managing investigative processes to support financial services, government and health care. Responsibilities include working with product management on feature definition, designing and implementing product features, and interacting with the quality assurance, performance measurement, documentation and technical support teams.

- Implemented SOAP web services to search for, access and update case data and application configuration data.
- Enhanced the application to track financial information associated with an incident or case.
- Implemented support for PostgreSQL and SQLServer databases.
- Implemented several performance and memory usage optimizations.

12/03 - 10/09

Member of the SAS OpRisk Monitor development team. OpRisk Monitor is a web-based application for capturing and tracking corporate operational risk data. Responsibilities include working with product management on feature definition, designing and implementing product features, and interacting with the quality assurance, documentation and technical support teams.

- Led the implementation of the control testing component. Control testing allows users to define reusable test definitions for operational and compliance-related controls, aggregate related test definitions into groups, and monitor the status of in-progress tests.
- Participated in the development of performance optimizations that led to the patent application: *Computer-Implemented Systems and Methods for Efficiently Selecting Data in Multi-Dimensional Hierarchical Space with Multiple Constraints*.
- Implemented the risk indicator component. A risk indicator is any operational measurement that can be used to help understand a company's risk exposure.
- Implemented a Java framework for loading customer data into the application. The framework allows users to batch-load .csv files and upload Excel workbooks via the web application. Users can load data in "test-mode" to validate input without saving the results to the database.
- Implemented several tools for "data re-organization". These tools allowed administrators to adjust their data as part of a corporate re-organization.

Independent Consultant Raleigh, NC

Certified WebLogic Consultant

7/02 - 11/03 Consultant to companies developing J2EE applications using the BEA product set. Responsibilities vary, but usually include project scoping and scheduling, design, implementation, testing and deployment.

- Technical leader of a team that updated a customer rewards web application to support content syndication and cobranding. Responsibilities included project scheduling and task asignment, requirements analysis, design, implementation, deployment and documentation.
- Presented Tuning BEA WebLogic Portal at 2003 BEA e-World Users Conference.
- Consultant to a global payments company's consumer web site development team. Responsibilities include analyzing marketing requirements, designing visitor tracking mechanisms that integrate with reports and content personalization rules, application development mentoring, code reviews, capacity planning and code optimization, third party product evaluation and project planning activities.

BEA Systems Cary, NC

Technical Manager, Accelerated Development Center

4/00 - 6/02 Consultant to companies developing J2EE applications using the BEA product set. Responsibilities vary, but usually include project scoping and scheduling, design, implementation, testing and deployment.

- Consultant to a team implementing a product information portal web-site. The resulting system, built on top of WebLogic Portal, included site registration, personalized visitor content and a single sign-on mechanism for integrating with existing web applications. The system integrated with Interwoven TeamSite for content management and the Autonomy search engine.
- Project leader of a development team that added personalization features to the web site for a global payments company. The resulting system, built on top of the WebLogic Campaign Manager, personalized advertising and content based on a number of user profile characteristics, recorded user tracking data in an Oracle database and generated reports on user activity.
- Consultant to a team implementing a customer rewards program. The system is using WebLogic Commerce Server version 3.2, storing data in an Oracle database. Responsibilities included providing information into the requirements gathering and project planning process, as well as occasional application architecture and code reviews.
- Project leader of a development team that implemented a web-site for buying mobile phones and accessories. The system used WebLogic Commerce Server version 3.1. Data was stored in an Oracle database.
- Project leader of a development team that implemented a web-site for a distribution company's partner program. The web-site allows interested companies to fill out and submit an application to enter the program. Company employees can approve or reject partner applications on-line. The web-based system uses Java Server Pages, a custom web-action framework and IBM WebSphere Application Server to generate pages. The system saved information in a DB2 database via SQLJ.
- Project leader for the follow-on project that added the ability for new and existing partners to upload new product information to the distribution company. Partners were able to review and edit uploaded product information. Company employees could approve products for distribution, reject products or request more information.

The Object People Raleigh, NC

Senior Member of the Technical Staff

11/97 - 4/00 Consultant to companies developing object oriented applications. Responsibilities vary, but usually include project scoping and scheduling, establishing an iterative development process, design, implementation, testing and deployment.

- Project leader of a development team that implemented the second generation of the mydiary.com web site using Java servlets and JSPs, the JRun servlet engine, Oracle and TOPLink. The project implemented a new UI, enhanced domain model and increased scalability and performance.
- Member of the team that developed and presented the IBM WebSphere V 2.0.2 Application Server Bootcamp. The bootcamp is an intense 5-day training experience, covering the installation and configuration of the IBM HTTP Server and the WebSphere Application Server, Java servlet-based architectures, Enterprise Java Beans, application debugging, optimization and scaling to multiple machines.
- Immersion Leader for a team of developers implementing the price computation component of a price maintenance system for a family of department stores. The Java-based price computation engine collaborates with a number of pre-existing RPG programs on an AS/400.
- Immersion Leader for a team of developers implementing an employee compensation system for an automobile manufacturer. The web-based system uses Java Server Pages and IBM WebSphere Application Server to access company performance data in a DB2 database.
- Mentored the design of a web-based system for monitoring telecommunications equipment. The resulting system used Java servlets for page generation and a small number of applets using RMI for dynamic updating.
- Mentored the design and development of a Java-based technology prototype for a military budgeting system. The resulting 3-tier system had a Swing-based thin client user interface that communicated via CORBA with a Java application server.
- Mentored the design and development of a Java-based price maintenance system for a retail distributor. The resulting 3-tier system had a Swing-based thin client interface that communicated via RMI with a Java application server.
- Designed the object model for a Java-based web application that allows insurance customers to examine claim information.
- Designed and implemented a tool that analyzes Java class files, proposes a database schema and generates the SQL table definition script.
- Designed and implemented a dynamic database query tool for a network configuration application. Project Leader for a small team of developers implementing a persistence layer and a query framework for a networking hardware configuration application written in Visualworks Smalltalk.

ABB Power T. & D. Co. Inc. Raleigh, NC

Fellow Engineer

1/95 - 10/97 Member of the ABB core team for software engineering research (U.S. representative). The core team established funding priorities for internal software engineering research projects, consulted on software architecture, software process improvement, participated in CMM assessments and mentored organizations in software life-cycle definition, effort estimation, inspections and reviews.

9/96 - 10/97 Consultant to a team of developers implementing a reusable framework for distributed Manufacturing Execution Systems applications. Responsibilities included: mentoring developers in object-oriented design, Smalltalk, Java, and Microsoft Component Object Model (COM) implementation techniques.

8/94 - 8/96 Member of a team developing an engineering design environment in Visualworks Smalltalk. The design environment allowed engineers to store and annotate project documents, trace requirements to design, capture the history of design changes produced by legacy engineering design tools and define and evaluate engineering constraints.

Knowledge Systems Corporation Cary, NC

Senior Member of the Technical Staff

11/93 - 8/94 Member of the KSC Transition Solutions Group. Transition Solutions provides Smalltalk apprentice programs in which a client sends a small team of developers to gain experience with object oriented systems by implementing a pilot project in Smalltalk. Responsibilities included leading and mentoring the client's development team during the requirements analysis, design and implementation of the pilot project.

3/93 - 10/93 Member of the CoDesign Version 1.0 product development team. CoDesign is a software lifecycle development environment written in Smalltalk V for OS/2. The CoDesign environment was based on the concept of Well-Defined Objects, which encapsulate and synchronize a software object's design, implementation and testing while providing continuously monitored quality metrics. Responsibilities included implementing the CRC card design tool, customer feedback tools, object inspector and documentation generation tool.

Component Software Corporation Lexington, MA

Senior Developer

8/92 - 2/93 Project Leader for the Component Workshop for Microsoft Windows product development team. Component Workshop is an incremental C++ software development environment. Responsibilities included generating the initial schedule and staffing the project team, as well as implementing the change management tool for Component Workshop Version 1.1 for Macintosh.

8/92 - 11/92 Member of the Component Workshop Version 1.0 for Macintosh Quality Assurance Team. Responsibilities included writing and running regression tests, reviewing documentation, managing the "new user" application testing teams and writing the sample application.

Digital Equipment Corporation Nashua, NH

Senior Software Engineer

1/91 - 8/92 Technical Leader of the Trellis Version 1.1 product development team. Trellis is a strongly typed object oriented programming language and incremental development environment. Responsibilities included implementing quality and performance enhancements, working with the team to design a mechanism for providing persistent object storage using an object oriented database, maintaining the internal build environment, presenting talks and demos at industry conferences and supervising the development of the object serialization facility and an initial SPARC port by graduate students in Germany.

11/88 - 12/91 Member of the Trellis product development team responsible for turning the Trellis research prototype into a commercial product. Responsibilities included: implementing a native VAX/Ultrix version, converting all source code from VAX C to ANSI C, developing the RISC/Ultrix code generator and run-time routines, designing an object serialization facility, writing installation procedures and installation guides for all 3 platforms and communicating with the Software Quality Management group.

Software Productivity Consortium Reston, VA

Member of the Technical Staff

7/87 - 10/88 Member of a team that produced a specification and initial prototype of an object database to store information from all aspects of the software development life-cycle. Designed and implemented low-level object support and transaction log manager. Wrote an internal guide to portable C programming.

University of Massachusetts Amherst, MA

Research Assistant

1/87 - 7/87 Designed a method for providing shared persistent object support for the Trellis object oriented programming language on top of an existing low-level storage manager. The

objective was to provide primitives for evaluating object faulting behavior when various object clustering rules were in effect.

Education

University of Massachusetts M. S. Computer and Information Science May 1987

Carnegie Mellon University B. S. Applied Mathematics - Scientific Computing and Engineering Systems May 1985