Michael Berger

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Lead Software Engineer and Architect

- **Hands-on Software Architect –** Strong architecture and design skills. Very technical and prolific programming skills.

- **Leadership Skills –** experience leading large teams of developers, testers, and systems engineers on large scale OSS systems.

Technical Skills

Concepts	Software Architecture and Design, Big Data, Business Process Modeling/Workflows, OLTP, OLAP, Database Design/Modeling, Interfacing, Order Management, Telephony, Performance Design and Analysis
Languages	Java, C++, C, JavaScript, SQL, Tcl/Tk, HTML, XSLT, RegEx, Unix Shell, Assembler, SWT, BPML
Frameworks/APIs	JEE, Hadoop, HDFS, Map/Reduce, JPA, Hibernate, Swing, Servlet, JSF, JBoss, Weblogic, Websphere, Tomcat, SOAP, ORACLE, MySQL, HSQL, JUnit, Linux/UNIX,

Professional Experience

Principal Software Engineer/Software Engineer V – Ericsson, Piscataway, NJ (03/2008-12/2018)
Software Architect, Lead Developer

Lead Developer and Architect for the Ericsson EEA Application (01/2013-present) – a Big Data application which collects wireless network data and provides real time and offline analytics.

- Designed and Implemented several multi-threaded Java engines to process large amounts of streaming data in real-time. The engines performed tasks such as data enrichment, creation of flattened, aggregated tuples, execution of Drools rules. The engines were successfully designed to achieve unlimited horizontal scalability.
- Designed and Implemented a Map-Reduce based profiling/aggregation engine. The Engine is metadata driven, highly performant, and able to process arbitrary Parquet and JSON data of any complexity. The engine can apply a large set of built-in aggregation operations to the data and also supports pluggable custom operations.
- Architected the JEE based UI/MT/Web Services layer
- Designed and Implemented the JBoss EJB Middle tier and Web Services, including security, licensing, authorization, JPA persistence layer, and business logic to support customer care and network operations.
- Bootstrapped the project at its very start including the creation of the entire continuous integration build and automated unit test environment.

Lead Developer and JEE Architect for the Dynamic Service Catalog OSS

- Sole Technical Architect
- Led the entire development team, including a significant offshore team.
- Designed and Developed Large Features across the entire product, including thick (Swing) and thin (JSF) UIs, Web Services, Middle Tier services, JPA persistence layer.
- Developed System Requirements for many features including application security, order differencing, and service composition.

Application Developer for the Granite Inventory System

- Designed and Developed new Features in the thick and thin application UIs, middle tier, and add-on modules. Features included enhancements to Licensing and Data Replication.
- Development was JEE/Java on Weblogic. UI development was JSP and Swing based.

Principal Software Engineer – Telcordia Technologies Piscataway, NJ (09/2004-03/2008)
Solution Developer

Developed a VOIP order management solution, which handles the provisioning of orders for VOIP services.

- Developed the interface to send service requests to the CLEC including the business logic for order decomposition, interface mapping, combining related orders, compensation/rollback, error processing, differencing.
- Developed a JSP thin-client UI for CLEC users

Principal Software Engineer – Telcordia Technologies Piscataway, NJ (11/1994-09/2004)
Lead Developer/Software Architect/Solution Lead

Software Architect and Lead Developer for the Service/Delivery product, a large scale, UNIX/C++ based, workflow/order management system for provisioning telecommunication services.

- Responsible for setting the product's architectural direction and deciding what new capabilities were needed for the product and then leading the development of the new capabilities from start to finish. This would involve developing/updating the product architecture, managing development and test teams, high and low level design, database modeling, development in C++, embedded SQL, test planning and execution.
- Created a programming language for FCIF and XML message transformation to allow customers to program interfaces through metadata. Implemented the language interpreter and integrated it into the workflow engine.
- Developed a DOM XML parser in C++.
- Designed and developed the product's user-programmable interface engine.
- Designed and developed much of the product's core application code (flow-control, interfacing, message processing, correction pass processing, inter-order processing, error handling).
- In the role of *Solution Lead*, led teams of 20+ developers, system engineers, and testers on large-scale custom order management solutions. Designed and implemented very large-scale business flows and application interfaces.

Member of Technical Staff – Telcordia Technologies Piscataway, NJ (07/1988-11/1994)
Lead Developer/Software Architect

Architect/Development Lead on SOAC a large scale, mainframe-based order manager/workflow OSS still used to provision phone service in the US.

- Led large feature teams of developers, testers, and system's engineers.
- Developed many features involved with interfacing to Telecom provisioning systems.
- Development was primarily done in C.

Software Developer – Spectrum Communications and Electronics, Hicksville, NY (05/1986-08/1987)

Software design, implementation, and test in C and Assembler for a 68000 microprocessor based, real-time paging and voice-mail control system. Added audiotex functionality and command line interface to the product.

Independent Projects

Sole Proprietor/Developer – MBCSoft (12/2005-Present)

Sole Proprietor of MBCSoft, which produces the TicketMaven product, a Java/Swing application to provide customer management, seating assignment, and ticketing for community based theaters. TicketMaven is commercial software.

- Developed requirements for a ticketing system that would meet the unique needs of a community based theater and also satisfy Florida's strict equal access laws.
- Designed, developed, and tested the system which involved database modeling, Java/Swing development, SQL, JDBC.
- Most important was the design of the complex seating lottery algorithms.
- Perform all customer support, including data migration from existing data sources and troubleshooting.

Creator/Developer – BORG Calendar and Task Tracker (10/2003-Present)

BORG is an open-source scheduling and task tracking application written in Java/Swing and hosted on Sourceforge and GitHub.

- Designed and developed the project in its entirety.
- Collaborated with a small number of volunteers to translate the product into one that is used all over the world and is translated into 10 languages.
- Collaborated with many teams of college students around the world using BORG as the basis for projects in computer science courses.
- Some technologies included in BORG: Java, Swing, SQL, JDBC, HTTP, XML, Servlet, iCal, PalmOS, CalDav

BORG is developed solely for the enjoyment of the development itself and the pleasure of interacting with users and fellow open-source developers.

Education

B.S. Computer and Systems Engineering	Rensselaer Polytechnic Institute, Troy NY 1987 *GPA: 4.0/4.0 Class Rank: 1*
M.E. Computer and Systems Engineering	Rensselaer Polytechnic Institute, Troy NY 1988 *GPA: 4.0/4.0 Class Rank: 1*