

Michael A. Sonsini

B.S. in Computer Science • B.S. in Mathematics

2900 Williamsburg Terrace T202 • Platte City, MO 64079 msonsini@vt.edu • 540-200-4639

Professional Profile

SOFTWARE ARCHITECT / SENIOR SOFTWARE ENGINEER with sixteen years progressive experience leading development teams in research, design and implementation of **business-IT solutions to resolve complex problems and/or meet challenging customer needs.**

- Effective leader with demonstrated ability to deliver multiple projects within critical deadlines.
- Ability to create, analyze and translate design and end-solution requirements into successful implementation.
- **Expertise spanning “concept to roll-out,”** from requirements gathering, software architecture and design to testing, documentation, installation, training and ongoing support. Versatile experience in new applications, modifications, upgrades, refining of techniques and enhancing application functionality and efficiency.
- Communicate effectively with diverse populations, teams, internal/external customers and vendors.
- Advanced competency in software development for **broad range of projects and applications.**
- Quick-study, highly adaptable; rapidly assimilate, master and apply complex technologies.

Technical Expertise / Leadership

- Feature Development / Implementation
- Integration to Enable Automated Testing
- On-site Customer Support Services
- Research / Requirements Gathering
- Compose Architecture Documentation
- Train / Supervise / Mentor Developers
- Manage Subcontractors / External Vendors
- Define Best Practices / Policies
- Internal / External Product Demonstrations
- Implement Unit Tests to Evaluate Code Changes
- Construct Build Process for Release Deliverables
- Customer Interfacing / Collaboration
- Generate Use Cases to Guide Development
- Design Internal Components / User Interfaces
- Development Team Recruitment / Interviewing
- Short / Long-term Plan Documentation
- Quality / Standards Conformance / Compliance
- Proposals / Incremental and Final Reports

Noted Achievements

- **Lumos:** Promoted developer technique enhancements on multiple teams to streamline high quality deliverables. **Results:** Established development and testing practices to continuously improve output.
- **Harmonia:** Led development team that created RapidStat™ Proof of Concept presented at a regional bio-statistical conference. **Results:** Awarded two-part \$750K contract with National Institute of Health.
- **Catalyst:** Introduced and implemented advanced programming tools (C++ STL, Subversion Revision Control System, Purify and Doxygen). **Results:** Dramatically improved efficiency of development team.
- **Evergrid:** Led team that developed a high bandwidth, low latency messaging solution for a major financial brokerage. **Results:** A message processing system capable of delivering one million messages per second.
- **SunGard:** Refactored use of messaging library within a primary application for main product line. **Results:** Provided a quality assurance solution while also enabling new functionality.

Employment History

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| July 2012-Present | Software Architect/Senior Developer | Lumos Networks
<i>(Mid-Atlantic fiber optic network service provider including data, broadband, voice, and IP services)</i> |
| Dec 2009-June 2012 | Senior Developer | Harmonia Holdings Group, LLC
<i>(Developer of custom solutions for government research with emphasis on commercial transitions)</i> |
| June 2007-Sept 2008 | Software Engineer | Catalyst Communications Technologies, Inc.
<i>(Interoperable radio and telephony solution provider for first responders)</i> |
| June 2006-June 2007 | Senior Software Engineer | Evergrid (renamed Librato in 2008)
<i>(Developer of high bandwidth, low latency infrastructure for financial applications)</i> |
| March-May 2006 | Senior Software Engineer | RJK Technologies (company lost contract)
<i>(Developer of mission critical software and tools for aviation and train systems)</i> |
| June 1999-March 2006 | Software Engineer | SunGard (formerly Recognition Research, Inc.)
<i>(Developer of automated processing systems for the health insurance industry)</i> |

Overview of Key Projects

- **SOFTWARE ARCHITECT / SENIOR SOFTWARE DEVELOPER** (Lumos: July 2012-Present)
Strategic planning and product management to development and long-term maintenance on multiple projects
Architecture / Mentoring / Planning: Collaborate with developers, managers, and directors across departments to mentor and leverage common solutions while distributing domain knowledge. Identify, promote, assist, and execute automation and customization efforts aligned with strategic IT and company goals.
Network Service Provisioning System: Establish development and testing paradigms to modernize and modularize evolving monolithic legacy application with new voice and network functionality. Introduced logging solutions to streamline error diagnosis and resolution while facilitating critical business metric delivery.
Customer Portal (Public Website): Accelerated feature deployment via best practices adoption and multi-tiered continuous integration solution. Integrated ticketing and billing systems while maintaining security standards.
- **SENIOR DEVELOPER** (Harmonia: Dec 2009-June 2012)
Research / requirements gathering to testing and product demonstrations
DoE CodeBook™ / Phase II SBIR: Providing computational scientists a venue wherein input from diverse participants evolves into comprehensive and adaptive solutions. Utilizes social and “architecture of participation” aspects of Web 2.0 with semantic analysis and ontologies of Web 3.0.
MDA Rise™ / Phase II SBIR: Cost-effective modernization of legacy software using innovative toolset to understand and translate; enables tailoring of conversion output to specific needs of operating environments.
- **SOFTWARE ENGINEER** (Catalyst: June 2007-Sept 2008)
Requirements gathering to testing
Ad Hoc Communications Network: Enhanced feature set providing context sensitive propagation of radio traffic through multiple real-time user-configured virtual networks simultaneously. Requirements gathering to testing of new feature set. Led development to refine and expand functionality to achieve customer needs.
- **SENIOR SOFTWARE ENGINEER** (Evergrid: June 2006-June 2007)
Design to field testing
High Performance Scalable Switch: Led team in development of new application suite guaranteeing bandwidth and latency thresholds while selectively delivering content from multiple sources to independent subscribers. Designed customer-centric solution / system capable of routing up to one million messages per second.
- **SENIOR SOFTWARE ENGINEER** (RJK: March-May 2006 / company lost contract)
Requirements gathering to design
Automated Rail Management System: New product suite managing data flow between rail equipment and control interfaces. Collaborated closely with customer on software/system functionality. Authored design and architecture documentation of component applications at multiple levels of detail.
- **SOFTWARE ENGINEER** (SunGard: June 1999-March 2006)
Concept development to long-term maintenance on variety of projects
Operator and System Evaluation Tool: Held lead role in new client/server application analyzing data input accuracy system-wide. Sole responsibility for ongoing development and maintenance of client application.
Scanner Output Collection Modules: New alternate input module/application enabling translation of non-standard input into format system could recognize. Sole developer and ongoing support.
Data Validation Rules: Wrote modifications and updates to existing rules used in conjunction with various data entry applications. Wrote documentation for Data Validation Rules.

Education

Virginia Tech: **B.S. in Computer Science**, Dec 2000, QCA 3.64

Virginia Tech: **B.S. in Mathematics**, Dec 2000, QCA 3.57

See Addendum for comprehensive listing of Technical Skills including Languages; IDEs / Build Environments/ Tools; Databases and Related Technologies; Frameworks; Enterprise Platforms; Application Servers / Web Tools; Operating Systems; Testing and Design Concepts; Other technical skills

 Technical Skills

- **Languages**

Java	PHP	Python	PL/SQL
Bash	C#	JavaScript	CSS
HTML	XSD	XSLT	C/C++
- **Integrated Development Environments (IDEs) / Build Environments / Tools**

Eclipse	Git	SVN	CVS
Jenkins	Maven	Ant	Make
Microsoft Visual Studio	PTC Integrity	GNU Toolchain	
- **Databases and Related Technologies**

MySQL	Oracle Database	SQLyog	Oracle SQL Developer
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- **Frameworks**

JAX-WS	JAX-RS	REST	RPM
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- **Enterprise Platforms**

Java EE			
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- **Web Tools / Application Servers**

Oracle WebLogic Server	Apache Httpd	IBM WebShpere	
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- **Operating Systems**

Windows: 95 to Windows 7			
Linux: Oracle Enterprise Linux, CentOS, Ubuntu			
- **Testing and Design Concepts**

JUnit	Mockito	PowerMock	PHPUnit
Agile Software Design	SOA	UML	SDLC
- **Other**

VMWare	Oracle VM VirtualBox	ITIL	Splunk
ManageEngine ServiceDesk Plus			