

KAMESH RAMAKRISHNA AIYER

11 Magazine Street, Apt 2 • Cambridge, Massachusetts 02139 • 617-335-1520 • kamesh@acm.org

SOFTWARE ARCHITECT

Broadly experienced, senior-level Software Architect has delivered cutting-edge technology for international clients with comprehensive and precise project management. Pioneer, applying keen diagnostic and problem resolution skills to remedy intricate technological challenges for industry-acclaimed products. Talented, adaptable collaborator, effectively bridging communication gaps among global stakeholders. Consistently meets and exceeds client expectations in delivering results. U.S. Citizen fluent in English and Hindi and conversant in Tamil.

SELECT ACHIEVEMENTS

- **Architected** the design and **Oversaw the implementation** of a custom multi-user messaging infrastructure by an international team distributed over India, Serbia, Boston, and Denver, and the states of Washington, Florida, and New Hampshire.
- **Spearheaded the creation** of a web-based system to produce product packaging and labels, additionally innovating concepts for inclusion in the overall corporate business plan of an angel-funded startup.
- **Researched and helped a Fortune 200 corporation** identify enterprise software usable in 40 countries as part of a multi-year, multi-million dollar project.
- **Produced an API using CORBA** to connect a clearing system with the database of FarSight Inc., a web-based broker-dealer division of D. E. Shaw & Co. Integrated new clients as the leader of the team introducing the API.
- **Constructed a real-time Commercial Paper trading system** for CREDIT SUISSE FIRST BOSTON, a top global bond trading floor. Trading volume doubled to over \$1 billion/day within 3 weeks of system launch.
- **Awarded 3 US patents for inventions** related to discrimination nets for fast pattern matching.
- **Generated a private label website** for 3COM, INC., 30 days after hire (by venture-funded startup Bizland), systematizing private labeling/customization process by retooling the source code.
- **Architected Motif v2.0 for release**, co-writing the accompanying style guide and winning authorization for Motif as an international IEEE standard (P1295.3).

Architectural Support • Systems Management • Software Development • Patents
Business Strategy & Product Development • Software Project Management • Problem Resolution
Systems Modeling • Software Development Methodologies, User Interface Design • Systems Architecture
Agile Methodology • Certified ScrumMaster • Consulting • Customer Relations • Vendor Management

PROFESSIONAL EXPERIENCE

KASHI SOFTWARE ARCHITECTS, INC., Cambridge, Massachusetts • 2007-Present Consultant

Completed consulting projects for a diverse client base, including a major initiative executed for ADAPTIVE ENGINEERING. Guided the company past its initial failure to deliver a n-tier messaging application designed to support 10K-15K active and 15K-30K inactive users for a key client, mobilizing 45-person Indian and an 8-person Serbian outsourcing teams to effectively collaborate on the project. Delivered 3 releases in 5 months.

Select Highlights:

- Catapulted the number of users able to access the system from 8 to 1K by reconfiguring a Java server application code, ultimately achieving usability for 10K+ users as mandated by the client. Authored an architecture document for submission to the client's IT division.
- Overhauled the application to precisely fulfill client deployment requisites, including the specified number of end users, security, regression testing, and integration with existing software.
- Demonstrated application's viability through the creation of resources used to perform regression testing.
- Anticipated the need for and designed an API to overcome client IT department security concerns enabling a transition from a remote site to call center product testing.
- Drove project completion by proactively recommending and achieved approval for (and the client's majority funding of) 3rd party vendor product performance testing using multiple thousands of PCs.

- Helped create a single source code management system as well as a single build and test framework. Tasked the Serbian team with regression testing and the Indian group with validating weekly builds.

EMC CORPORATION, Hopkinton, Massachusetts • 2002-2007**Senior Consultant Software Engineer**

Tasked with unifying the file server management interface for the recently formed NAS Division (comprised of the Celerra™ file server division, the Data General storage subsystem group, and a newly acquired French file system configuration vendor). Championed and eventually won support, in principle, over an 18-month period from each internal group to migrate to 1 or 2 file system management interfaces to meet the company's goal to consolidate all management systems.

Select Highlights:

- Constructed a prototype of a SMI-S v1.0-compatible API-cum-user interface selected as one of the company's "futures" at the 2004 Storage Networking/Interop show. Bested NetApp, a close company rival, and captured invaluable publicity for EMC.
- Broadened national and global awareness of the company as its representative and as a participant in the standardization of system management models by the Storage Networking Industry Association (SNIA) and the Distributed Management Task Force (DMTF).
- Fuelled the development of a SMI-S standard as an active participant and co-chair of the SNIA File system Management Workgroup, actively collaborating with technical leaders from HP, Sun, Brocade, NetApp, and IBM, winning industry-wide acclaim.
- Authored a virtual computing configuration management proposal long before the emergence of current "cloud computing" concepts as a member of the DMTF Virtualization working group. Principles outlined in the proposal comprise the core of existing DMTF cloud management standards.

ADDITIONAL WORK HISTORY (Full details upon request)**KRITICKA INC., Southboro, Massachusetts • 2000-2001**

Co-Founder/CTO/CIO: Crafted a viable business plan for an angel-funded startup. Sought funding through high-powered VC presentations and conducted technical meetings with a broad client base. Innovated the Internet-powered kLabel™, knowledge-driven collaboration system designed to produce labels and packages for product development teams.

BIZLAND, INC., Burlington, Massachusetts • 2000

Director, Technology Integration: Re-tooled the content management, source code, scripts, and other components to enable individualized private labeling for a venture-funded start-up. Delivered a private-labeled site for 3COM.

KASHI SOFTWARE ARCHITECTS, INC., Cambridge, Massachusetts • 1999-2000

Consultant: Technical Lead of a group assigned to create a legacy-middleware-to-CORBA migration system for United Health Group. Coached the principals in MIT-based start-ups on technology strategies.

EDUCATION

Doctor of Philosophy in Artificial Intelligence and Human Factors
Carnegie-Mellon University, School of Computer Science, Pittsburgh, Pennsylvania

Bachelor of Science in Electrical Engineering
Indian Institute of Technology/Kanpur, Kanpur, Uttar Pradesh, India

AFFILIATIONS

Institute of Electrical and Electronic Engineers (IEEE) • Association for Computing Machinery (ACM)

TECHNICAL SKILLS

Java • JBoss • JMS • C++ • JavaScript • PHP • Perl • HTML • Certified Scrum Master
DHTML • XML, Postscript • SQL, PL/SQL • Lisp • CLOS • C • Pascal