

K. Shankari

560 S. Shoreline Blvd, Mountain View, CA 94041
Phone: (650) 967-4581 | Cell:(650) 454-6036 | Email: shankari@tamtom.homeip.net
Home Page: <http://tamtom.homeip.net/~shankari>

US Employment Authorization: Permanent Resident Alien (Green Card)

Objective

Senior engineer, with 4 years experience in designing and implementing large object-oriented frameworks and solving problems at the systems level, seeks challenging technical position working on cutting-edge software technologies.

Education

- **M.S. in Computer Science**, University of California, Santa Cruz (Spring 2000)
Graduated Spring 2000 with a GPA of 4.0
Thesis: [How to connect non-Java devices to a Jini network](#), Advisor: [Charlie McDowell](#)
- **B.E. in Computer Engineering**, VESIT, University of Bombay, Bombay, India
Graduated in First Class With Distinction, May 1996.
Senior Project: Efficient string matching algorithms for DNA sequencing, Advisor: [R. K. Shyamasundar](#)

Professional Experience

01/01 - present (3 years, 9 months)	Open Harbor , San Carlos CA	LEAD ENGINEER, SENIOR SOFTWARE ENGINEER, SOFTWARE ENGINEER
09/99 - 12/00, 09/98 - 06/99 (2 years)	UC Santa Cruz , Santa Cruz, CA	TEACHING ASSISTANT, GRADUATE STUDENT RESEARCHER
06/99 - 09/99 (3 months)	National Semiconductor Corporation , Santa Clara, CA,	RESEARCH ENGINEER
11/97 - 06/98 (9 months)	Smart Rupees(SMARS) Project, IIT(Bombay) , India	SOFTWARE ENGINEER
07/96 - 10/97 (1 year, 3 months)	Intouch Global LLC (Bombay), Bombay, India	SOFTWARE ENGINEER

Publications

Charles E. McDowell and K. Shankari. **Connecting non-Java devices to a Jini network**. Proceedings of TOOLS 33 St. Malo, France, June 5-8, 2000 (Download [paper.ps](#) or [paper.pdf](#), [slides.ps](#) or [slides.pdf](#))

Leadership and Business experience

- **Lead Engineer**, Open Harbor
Led a team of 4 engineers in deploying our Worldwide Clearance System (WCS) solution for several countries. I estimated features, worked them into a schedule and tracked against it to make sure our deliverables were met. I also attended design reviews for my team, and participated in project planning and bug prioritization.
- **Service Delivery Manager (SDM)**, Open Harbor
In a matrixed position, I was the project manager for two releases of the Open Harbor ASP solution. One was a major release which involved a complex data model change and a significant migration of large parts of our code. The other was a minor release that dealt primarily with deploying our customs clearance solution to an additional country. Both deployments were successful in spite of extremely aggressive, time-boxed timelines. My performance in this highly visible, high pressure role received excellent reviews from all groups in the company.
- **Product Management**, Open Harbor
In a matrixed position, performed requirements gathering and product specification for the initial, pilot phase of the Worldwide Clearance Solution.

Relevant technical projects

- **Complex object model to represent customs clearance information**, Open Harbor, 9/01 - 5/03
Developed an object model to represent objects involved in estimation of duties, taxes and compliance information related to import and export. Later extended this model to support end to end clearance (including transshipment).
- **Generic, XPath based solution to incrementally update a DOM**, Open Harbor, 9/01 - 3/02
Designed and partially implemented generic, xpath based solution to perform targeted updates of our object model. I fully implemented the later extension to the solution to support referential updates.
- **API design - Java wrapper classes for our XML based DOM**, Open Harbor, 9/01 - 3/02
Designed and fully implemented Java wrapper classes to provide object oriented access to an underlying DOM. The classes also implemented a sophisticated change tracking algorithm that would generate updates to be used as input to the update solution.
- **Improve fuzzy matching search using SSA libraries**, Open Harbor, 1/01 - 9/01
Used JNI to integrate with C based libraries from SSA in order to use their fuzzy match algorithms for checking parties against the denied party list.
- **Quick turnaround projects in a fast-paced environment**, Open Harbor, 1/01 - present
Performed the additional small projects required while working for a fast-paced startup, including checking that required rules are triggered, user override of exchange rates, porting of code to new frameworks, backwards compatibility XSLTs and build script changes.
- **Using Jini in non-Java systems** UC Santa Cruz, 1/00 - 3/00
Explored ways to use Sun's new technology, JINI, in embedded systems. Designed communication protocol and deployment options to use a Java proxy for communication between non-Java embedded devices to communicate via JINI.
- **Simulating integration of RAM into the CPU**, UC Santa Cruz, 1/99 - 3/99
Simulated IRAM by modifying existing simulation tools (SimOS), and compared the performance to conventional architectures with special emphasis on reducing the processor-memory gap.
- **An implementation of lease-based voting algorithms**, UC Santa Cruz, 1/99 - 3/99
Developed a lease-based voting algorithm with a tunable parameter to avoid the drawbacks of both static and dynamic voting algorithms for replicated file systems.

Catalogue of Skills

- Expert level skills in C (text matching algorithm, some chip testing) and Java ([sample game applet](#), [Jini](#), [JCE](#) using [Cryptix](#))
- 4 years of experience in n-tier systems with weblogic J2EE as the application server.
- Experience programming in Java since the first stable version in 1996 (JDK 1.0.2 Beta) through every version upto the present. Familiarity with the changes caused by the evolution of Java APIs over time.
- Project management and team lead experience.
- Strong design, object modelling and architecture skills - many of my designs have been used for years in Open Harbor's enterprise solution.
- Strong work ethic and teamwork as demonstrated by positions of increasing responsibility at Open Harbor.
- Ability to evaluate new APIs and assess their impact on existing frameworks.
- Very strong communication and documentation skills - for example, I am known for writing the most detailed cvs commit messages in the company.
- Rated as one of top 3 engineers out of a team of 15 at Open Harbor.

Avocations

Debates, drama and track and field. I was Bombay-wide debate champion while in High School, participated in several school plays, and was second in the state-wide 400 mtr hurdles Open Championship after graduation.