

## ***Parijat Prosun Kar***

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### **SUMMARY:**

I have experience of working in Java, J2EE, XML, Oracle and Object Oriented development on Solaris, Windows and EPOC for last five years. My experience includes works on web applications and compiler/parser design based projects. I have a Master's degree in Computer Science majoring in **Distributed Artificial Intelligence** and have more than ten publications in leading international Agents and AI journals and conferences. My work experience includes services to the clients and customers like British Telecom, SONY, TOSHIBA and NSF. I have research and teaching experience of Information analysis, knowledge based systems and data mining. I am looking for a challenging full time 'Software Engineer' Salary and compensation are negotiable as per experience, an MS degree in CS and benefits in the current employment.

### **EDUCATIONAL QUALIFICATION:**

- MS in Computer Science (Distributed Artificial Intelligence) from the University of Tulsa, Oklahoma, USA in the year 2003 with CGPA 4.0 / 4.0.
- BE (First Class with Honors) in Computer Science and Engineering from Jadavpur University, Calcutta, India in the year 2000 with CGPA 3.76 / 4.0.

### **KNOWLEDGE/EXPERIENCE:**

- **Platform:** Windows , Solaris, EPOC
- **Language:** Java, C++ and C
- **Database:** Oracle 9i, PL-SQL, TOAD
- **Network Protocol:** HTTP, TCP-IP
- **ETL/Integration Technology:** XML, XSD, ETD
- **J2EEWeb Technology:** Websphere , JSP, EJB, Struts, Servlet, RMI
- **Others:** JVM

### **EMPLOYMENT HISTORY**

- Currently working from 14<sup>th</sup> September 2004 for [Sun Microsystems](#), Monrovia, CA as a **Member of Technical Staff** in the Software Products R&D Engineering Department
- Worked from 2<sup>nd</sup> January 2004 to 13<sup>th</sup> September 2004 as a Software Engineer in [Kaiser Permanente](#), Pasadena, CA.
- Worked from 17<sup>th</sup> August 2001 to 30<sup>th</sup> September 2003 as a **Research Assistant** in the [DAI-Hards Research Lab, University of Tulsa](#), Tulsa, OK.
- Worked from 3<sup>rd</sup> July 2000 to 16<sup>th</sup> August 2001 for [HCL Technologies](#), Noida, UP, India as a **Member of Technical Staffs** in the **Mobile Solutions Group** of Software Division.

**RECENT HONORS and AWARDS:**

- Honorable mention award at the 6th TU Research Colloquium, 2003.
- Honorable mention award at the 78th Annual Meeting of American Association for Advancement of Science (AAAS), Southwestern and Rocky Mountain Division, 2003.

**RESEARCH PUBLICATION:**

A list of recent publications attached at the end.

**WORK EXPERIENCE:**

- Working from 14<sup>th</sup> September 2004 as a **Software Engineer** in the **Products** Division of **Sun Microsystems/SeeBeyond Technology Corporation**, Monrovia, CA.

**1. e-Index and e-View maintenance, redesign and enhancement**

eView Studio uniquely identifies common records across disparate systems using data cleansing and matching technology to automatically build a cross-index of the many different local identifiers used to represent the same entity. This cross-index enables the SeeBeyond ICAN Suite to seamlessly share information between these systems without requiring changes to every system. This enables rapid implementation of eBusiness and CRM initiatives such as self-service portals, fully integrated call centers, and consolidated billing and account management systems for customers or unified order management across multiple inventory systems for products.

eView Studio is an enterprise module that provides application wizards that allow business analysts to rapidly design and generate these ‘single view’ applications, a very unique offering among enterprise integration vendors.

Engineer’s role was to enhance eView APIs, redesigning the GUI and develop different clients based on eView beans. eView is a J2EE application.

**2. e-Gate XML toolkit maintenance, redesign and enhancement**

e-Gate™ Integrator is a J2EE compliant and Web services based distributed integration platform that serves as the foundation of the SeeBeyond ICAN™ Suite 5.0. e-TL™ Integrator, along with e-Gate Integrator, offers a comprehensive enterprise integration infrastructure. e-TL™ Integrator is an enterprise module optimized for extracting, transforming and loading bulk data between files and databases and provides an ETL development and runtime environment that is both fully integrated into the ICAN platform and specially optimized for handling very large record sets.

Engineer’s role was to enhance XML parser for Seebeyond XML toolkit, converting XSD’s to Monk SSC. Parsing data using Java XML APIs to upload and download data in the database. XML toolkit is a Java based product.

- Worked from 2<sup>nd</sup> September 2003 to 15<sup>th</sup> August 2004 as a **Software Engineer** in **Kaiser Permanente**, Pasadena, CA.

### 1. Resource and Portfolio Management (RPM)

The **RPM** is an umbrella for most of the project management applications in Kaiser. It maintains a pool of projects, which are web-enabled and are developed, based on Java technologies, Oracle and data mining and data warehousing. The present project focuses on building web services which are the reusable components and which help the project and portfolio management applications to be syndicated to any of the other business groups of Kaiser, which can act as the pool of the resource and business policies of Kaiser.

The application is developed in Java and J2EE on application servers. The engineer's responsibility includes programming in Java, generating Oracle queries, developing servlets, EJBs and data formatting and loading using XML XOG.

- Worked from 17<sup>th</sup> August 2001 to 1<sup>st</sup> September 2003 as a **Research Assistant** in the [DAL-Hards](#), **University of Tulsa**, Tulsa, OK.

### 1. Implementation of a Teacher Agent

Development of a teaching agent, which will teach another agent in the way it learned itself. The work includes extensive data mining and pattern recognition. This research work experimented on IBL, ID and SVM algorithms for mutual sharing of concept. The framework is developed in Java on Solaris system. The engineer's role was to develop and maintain programs using Java, J2EE, Oracle and XML.

### 2. Reciprocity in a Group

Study of group interaction in an agent society. Analyzed effect of presence of selfish agents in a group of service providers. How we can promote cooperation among self-interested autonomous agents in a distributed system. The system is built in Java on UNIX o/s. The engineer's role was to develop and maintain programs using Java and XML.

### 3. Implementation of a Meeting Scheduler

Development of a meeting scheduler, which will teach another agent in the way it learned itself. This research work experimented on linear early, hierarchical and adaptive scheduling strategies. The engineer's role was to develop and maintain programs using Java, J2EE and Oracle. Also the role includes developing a compiler and parser for a scheduler scripting language.

- Worked from 3<sup>rd</sup> July 2000 to 16<sup>th</sup> August 2001 for [HCL Technologies](#), Noida, UP, India as a **Member Technical Staff** in the **Mobile Solutions Group** of Software Division.

### 1. Implementation of I-Mode Client-side Protocol Stack and Browser

Development of I-mode protocol stack according to NTT DoCoMo, Japan's specifications. TL-Push, HTTP, Transport Layer, Network Layer are implemented. Interface of NL with PDC-P, TL-Push and Application Layer with the e-mail system and cHTML micro-browser. Codes are developed in Java and C++ on EPOC platform.

## 2. Java Enabled Mobile Phone

Developing J-enabled mobile telephones for NTT-DoCoMo, Japan (Mobile phone connection service provider in Japan). SONY, Japan provided hardware. (DSP part of that is also being done by our MPSG group.) The project comprises of developing a KVM for EPOC o/s. porting of CLDC (connection limited device configuration), designing the JAM (Java Application Manager) for the device. Also designed and implemented modules of different profile managers, micro browser and micro GUI. Engineer's role included design of KVM which had heavy design of Java compilers/parsers and testing Java programs on the built KVM.

## 3. Toshiba Automobiles

Screens to handle Toyota Motor Company administration. Specifically: Administrative screens to handle administrator data. There were 17 main screens and 15 search screens. Logic was implemented in Java Servlets. GUI and error handling was in J-Scripts. Data was stored in Oracle Design of the Database System in Oracle 8.0 and Development of 5 Search Screens and 2 Main Screens using Java-Servlets. Also handling of error and screen layout using J-Scripting.

## 4. Code Review Engine

Manufacturing of a software tool, which will check an input piece of software code, is following the coding guidelines provided by the user. The job comprises of designing a parser, a rule database, and GUI and remote connection. Team size was 10. Logic was implemented in Java and database was maintained in Oracle.

- Worked as a **Summer Intern** from 28<sup>th</sup> April 16, 1999 to July 26, 1999 and from May 11, 2000 to June 28, 2000 for **BEACONS**, Howrah, WB, India

## 1. Quotation Evaluation Systems

Coding and testing of all software for a local quotation evaluation system based supplier bids from different sources. Carte Bancaire Protocol was used to create the whole architecture of the system. Designed and coded applications for Points-of-Sales. Participated in the development of an Electronic Transactions Processing Center (Oracle on Solaris) and in designing and coding of software for ATM in Java and JNI. Engineer's role was to develop banking cryptography system, key generation and management for asymmetrical RSA algorithms & DLL in Java and J2EE on Windows 95.

### Training and Certification:

- Seebeyond certified eGate and ICAN developer.
- Attended corporate training of HCL Technologies for one month (July 2000) in different courses like **Java**, **JSP**, **UNIX**, and **Oracle**. Attended group and project specific training through out the service period on **WAP**, **I-mode**, **IRDA**, **CDMA**, and **SMS** etc. Also undergone training in quality assurance following **ISO** and **CMM** guidelines, software management etc.
- Attended corporate training of Kaiser Permanente for NIKU professional services.
- Attended corporate training of SeeBeyond for ICAN-500 professional services.

### **Teaching Experience**

- Worked as a teaching assistant for the ‘Scientific Computing in Java’ (CS2503) course for Fall 2003 semesters at the University of Tulsa.

### **Research Publications and Presentations:**

- **Sharing a Concept** by Sandip Sen and **Parijat Prosun Kar**, accepted in the proceedings of AAAI Spring Symposium 2002.
- **Group Interactions Based on Agent Opinion** by **Parijat Prosun Kar**, Partha Sarathi Dutta and Sandip Sen accepted in the proceedings of AAAI National Conference workshop 2002.
- **Effect of individual opinions on group interactions** by **Parijat Prosun Kar** and Sandip Sen in Connection Science Journal, Vol. 14, No.4, UK, 2002.
- **An Agent Teaching Agent Framework** by **Parijat Prosun Kar** and Sandip Sen in the 2nd Autonomous Agents and Multi-Agent Systems Conference Posters, Melbourne, Australia, 2003.
- **An Agent-to-Agent Framework for Concept Transfer** by **Parijat Prosun Kar** and Sandip Sen in the 4th International Conference on Cognitive Science, Sydney, Australia, 2003.
- **Agent as a Teacher** by **Parijat Prosun Kar** and Sandip Sen submitted to 1st Indian International Conference on Artificial Intelligence, held at Hyderabad, India, 2003.
- **A Teaching Agent** by **Parijat Prosun Kar** in the 5<sup>th</sup> Annual Research Colloquium held at The University of Tulsa, 2002.
- **Managing People – A Learning Experience** by **Parijat Prosun Kar** as a Software Project Management Technical Report.