Siddhartha Dutta

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Education

Masters of Science in Computer Engineering

Aug 2010 – May 2012

- o University of Florida, Gainesville, FL
- o GPA: 3.83/4.00

Bachelor of Engineering (BE) in Computer Science & Technology

Jun 2003 - Jun 2007

- Bengal Engineering & Science University, Shibpur, West Bengal, India
- Average marks: 74% of total (First Class) Ranked within Top 5 in class of 39

Professional Experience

Sr. Software Engineer, Cerner Corporation, Kansas City, MO

Aug 2014 – Till Now

- Developed **Connect**, a clinical mobility solution that supports secure and fast communication, easy collaboration, and smart alert management workflows for the caregiver.
- Built from scratch highly scalable and highly available micro services in Java with distributed architecture to support the application. Integrated and leveraged the legacy services offered by Cerner
- Built the JavaScript clients necessary for the front-end to talk to our micro-services. (Over WebSocket).
- Implemented the session, presence and push notification services to ensure highest reliability in message and notification delivery.
- Worked on various performance improvement and strengthening tasks such as reducing the startup time of the services, faster request reply improved by caching and paging.
- Leveraged Docker containers running on DC/OS nodes with the distributed cache(Hazelcast) to improve performance.
- Implemented RESTful services in Java to communicate with JMS Services and service layer in Java.
- Designed, executed and gathered extensive load testing evidence to ensure scalability.
- Built capability and real time performance dashboard.

Programmer Analyst, Egen Solutions, Inc.

May 2012 – Aug 2014

Client: University of Michigan, Ann Arbor, MI

Jan 2014 – Aug 2014

- Workflow application using Spring Boot and Thymeleaf for data requests.
- The Medical School information services team is building a SOA backplane for research teams to make cohort requests for data. The challenge lies in that the data is spread across various databases maintained by different teams.
- Building the skeleton for the SOA backplane with Apache Camel as the enterprise service bus.
- Designing the Splitter based on the output of the query parser coding the endpoints of the ESB like the message handler and the aggregator and coordinating with various research teams for better understanding their needs and building the federated model.

Client: NTT Data Inc., Boston, MA

Jul 2013 - Jan 2014

 Understanding the end to end architecture, configuration of Health Rules to set up the virtual machines and deploying the EJBs in the server to run with the customization

- Marketplace data coming as inbound 834 to health rules needed to loaded through customized iWay channels and the web services deployed in the server
- Built both 834 outbound and customized outbound for different trading partners, built correspondence channel when enrollment or provider information changes Involved in business design meetings with BAs and subsequent tech design walk-through with architects

Client: Jackson National Life Insurance, Franklin, TN

Dec 2012 – Jul 2013

- Developed the dashboard for representatives to segment their clients. Technologies used are JSF, core Java and Spring framework with backend DB2 database for OLTP and Sybase for OLAP Worked with product owner for creating feasible screens and functionality
- Specific modules developed were Client Segmentation by parameters like asset under management and gross revenue The advisors can setup the segment names and the corresponding segments and run the segmentation function. Setup and displaying welcome messages, user roles, Single sign on to the existing applications and displaying key performance indices portlets with drill-down

Client: Healthcare Management Systems, Nashville, TN

May 2012 - Dec 2012

- Developed the module for continuity of care using Swing, core Java along with Spring Framework
- Consumed REST and SOAP based web services from other modules for email interface for sending and receiving documents
- Writing test cases with JUnit for robust code and extensive debugging of the legacy application and database for production issues

Graduate Research Assistant, University of Florida, Gainesville, FL

Jan 2012 – May 2012

Project: Geo-Spatial Algorithm Implementation and Spatial Databases

- Partnering with Northrop Grumman for implementing Contour extraction algorithm for moving 3D objects
- Developing functions for converting various data formats like arc grid to gml used for representing spatial data
- Understanding and preparing the tech design document to plan the development
- Optimization of existing algorithms and exhaustive performance testing
- Technologies used Java, JTS Topology Suite, Spring, Oracle 10G, TOAD, Eclipse, Tortoise SVN, JUnit

Graduate Intern, Innovative Scheduling, Gainesville, FL

Aug 2011 - Dec 2011

- The project was to provide real time and static scheduling and route design solution to Conway, BHP Billiton and WalMart
- Developing Linehaul Execution System to dynamically route shipments to improve load factors, predictability and visibility of shipments
- Identification of hotspots and recommendations by simplification and unification of reporting
- Working on optimization of scheduling algorithms for periodic and frequent updates of the static plan to save costs
- Technologies used Java, JSF, JMS, Hibernate, HQL, Spring, Oracle 10G, TOAD, HTML, CSS, XML, JavaScript,
 Web sphere Application Server 6.1, Intellij, Tortoise SVN, WSDL, JUnit

Summer Intern, Forensics Technology Solutions, PwC Advisory, San Francisco, CA

Jun 2011 – Aug 2011

- Involved in gathering requirements, deriving functional requirements and system requirements from the Business Requirements.
- Writing SQL procedures and DAO in Spring to improve current processes and develop efficiencies for software licensing engagements

- Extensive implementation of web services in Java to connect the legacy applications to pull computed data from multiple sources
- Developed the code using Spring Framework, JSF, JSP, AJAX, JavaBeans, Hibernate3.0, WebServices, Java Script, JMS, JNDI, XML, XSLT and HTML.

Consultant, Technology Advisory Services, PricewaterhouseCoopers, Kolkata, India

Jul 2007 – Aug 2010

- Web Development using Java/J2EE technologies like Java, JSF, Swing, JSP, JSTL, Servlets, JDBC, EJB, RMI, JMS
- Development of decoders for network switches, Object oriented analysis and design of databases and their implementation
- Integration of reporting tools with data sources and generating customizable MIS reports and web application development
- Prepared proof of concepts and coordinated with clients for changes in requirement and status updates during development lifecycle
- Involved in coordinating training programs and interacting with college students across campuses in India

Tools and Technologies

Languages: Java, C, C++, JavaScript, SQL, PL/SQL, C#, MDX

Operating Systems: Windows, UNIX, LINUX, Mac

RDBMS: MySQL, Oracle–9i/10g/11g, MS SQL Server 2000/2005, Sybase IQ

S/W Utilities/Framework: Spring Framework, JSF, Hibernate, Swing, Thymeleaf, EJB, JSP, Servlet, SAS, Pentaho,

JMS, IBM MQ Series

Hardware: Microprocessors 8085/86, AIR/CCN Switch Web/App Servers: Tomcat, JBoss, WebLogic, Websphere IDEs: IntelliJ, Eclipse, JBuilder and NetBeans

Version/Build control: Git, SVN, CVS, Clearcase, TFS, Maven, Ant, NPM

Research Experience

University of Florida, Gainesville, FL

- Token Based Mutual Exclusion: Implemented the Suzuki/Kasami Broadcast algorithm to ensure serialized
 access by concurrent processes to shared resources or data using Java multicast facility while taking care of losses
 due to the network
- Stock Exchange simulation The project simulates concurrency and synchronization problem in real life stock
 exchange Multiple users can login and play a particular session Designed this mainly to exploit the high degree of
 concurrency at the exchange Successfully simulated an environment of 1 million traders who would be buying and
 selling at the exchange
- Peer-to-peer network for file downloading

Bengal Engineering & Science University, Shibpur | Howrah, India

- Assembler for 8085 implemented in C
- Expert systems and Classifier algorithms with special emphasis on discretization techniques

Indian Statistical Institute | Kolkata, India

- Received an extensive training on File Systems
- Implementation of advanced data structures for efficient database design

Academic Achievements: Ranked **387** amongst **500,000** examiners in the engineering entrance exam (WBJEE 2003) to gain a seat in the Department of Computer Science & Technology of Bengal Engineering and Science University, Shibpur