

# SABYASACHI (NEIL) GHOSH

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Last updated Mar 16, 2021

## Highlights

- Fully hands on individual contributor.
- Technical leadership and mentoring.
- [Google Developer Expert](#) in Cloud.
- Public speaking and Open Source.

## WORK EXPERIENCE

**April 2019 - Present** :Worked as **Lead Software Engineer** at **Salesforce.com**.

- Worked as an Individual contributor involved in design, developer and deployment.
- Tech Lead for core scrum teams and POC for Loyalty Management Product as a whole.
- Involved in Design, Tech Research and evolution of the product from inception.
- Designed and Implemented the most complex features like high scale tables, data sharing, performance bottlenecks.
- Pioneered in public cloud transformation and onboarding services collaborating with distributed teams across time zones.
- Technical hiring.
- Acted as the lead from the engineering side to the external partners and customers to help them adopt the brand new GA-ed product via partner forums and tech talk sessions.

**October 2016 - March 2019** :Worked as **Senior Technical Architect** at **JDA Software**.

- Design and development of next generation Retail planning enterprise software in SaaS.
  - Responsible for design and implementation of high volume data ingestion pipeline (Batch and Streaming)
  - Strategized and Implemented monitoring and alerts throughout the system focusing on detection of unusual resource usage and cost.
  - Strategized and Implemented functional, load and automation test in CI/CD pipeline.
- Worked on a fully devops model leveraging Google Cloud Platform's managed services including Appengine, Datastore, Bigquery, Pub/Sub, Cloud Functions, Dataflow, CloudSQL etc.
- Participated in global architect meetings and on-site summits contributing to the architecture strategy with alignment of other lines of business and products.
- Influenced and set an example for the dev team more than 50 about the best patterns of SaaS development.
- Demo's POCs for Azure migration Project.
- Conducted tech talk sessions covering the architecture, operation and troubleshooting the newly launched product to the partners and end customers.

**March 2013 - October 2016** :Worked as **Software Engineer III** at **Electronic Arts**

- Architecting and executing end-to-end cloud migration of massively multiplayer legacy game servers with 2 million daily active users to Amazon Web Services.
- Feature development (including real time multiplayer) with extreme focus on server latency and resource consumed with cost oriented programming in the cloud.
- Server API development with Java, Java EE, Google AppEngine, PHP, MySQL, Apache, Memcached, DynamoDB, Couchbase and other proprietary in-memory databases for mobile client.

- Co-working, transitioning and leading the engineering team in game titles like Monopoly Bingo, Tetris Blitz & Bejeweled Blitz from US studios.
- Setting up & maintaining build/release systems (Jenkins with Shell scripting, Python, Groovy).
- Test Driven Development with Unit testing frameworks (JUnit, Test NG, Phockito ).
- Coordinating with the central DevOps team regarding maintenance and optimization of production and test environments servers.
- Admin Tools Development (JavaScript, CSS, PHP, Twig).
- Agile Développement (Planning, Estimation, Execution, workload distribution, Reporting)
- Encouraging strong engineering culture with collaborative , code reviews, test coverage as part of the development process.
- Won “Record Breaking Performance” award in 2014 for successfully transitioning new project while already leading an old project.

**July 2007 - March 2013:** Worked as **Project Leader Engineer** in the Oracle Application ERP Development at **Oracle India Private** limited.

- Technology Initiative Team with the following innovative areas (Semantic Search [Web 3.0] ,OWL – Web Ontology Language,RDF – Resource Description Framework, HTML5 Mobile apps, PhoneGap)
- Automatic Infrastructure exposing business functionalities as Web service
  - Design and development of automatic Webservice Generation Infrastructure using Object Oriented programming (J2EE/JAVA)
  - Generating SOAP and RESTfull services and registering in Integration Repository.
  - Expertise in Oracle Application Development Framework and creating rich browser applications using database and weblogic as application server.
- Development of Oracle Inventory of E-Business Suite 11i and R12
  - Modifying algorithms for better performance making the product scalable to very high number of transactions .
  - Enhancements of the product by adding features according to the business requirements.
  - Analyzing and Fixing code bugs reported by over 10,000 customers all over the world in various components of Inventory management including mobile.
  - Understanding various business scenarios of various customers and bringing common solution after standardizing them.
  - Writing Shell scripts and PL/SQL scripts to fix data corrupted by existing bugs.
  - Built a prototype of visual representation of real time data using Adobe flex, JSP and XML
  - Java OA framework and interactivity with database for Migrating XML data. Oracle iSetup.
  - Owned the module of consigned inventory and helped in Oracle Fusion migration.

**April 2007-July 2007:** Worked as a **IT Consultant** in the Sinha Research Lantsch/Lenz, Switzerland.

- Development and documentation of Stocks and mock trading services including OPTION trading and history simulation tools that were ahead of its time (In House Product)
- Developpe and maintenance of Java programs for transforming large volume data and storing data in PostgreSQL in a normalized way.
- Development of Bloomberg C++ API to download real time quotes.
- Programming in PHP, XML and Adobe flex (Including writing libraries from scratch) to create real time interactive scalable charts Market monitoring
- AJAX-PHP based Interactive Communication Message board .

**July 2006-March 2007:** Worked as a **Software Engineer Trainee** in the Oracle Application ERP

Development Team at **Keane India(Previously Caritor India), Chennai India.**

- Development of Oracle reports in Finance and Supply Chain Management Module of Oracle application ERP 11.5.10.
- Worked as offshore developer for the clients like Unisys with very high and string coding/process standards.
- Automated triggering of auto generated reports (PDF, Excel and HTML) as e-mail attachment from Linux server.
- Oracle 9i Database, PL/SQL, Unix Shell Script, Oracle Report Builder 6.
- Enhancement in Oracle Contracts and Oracle Install base Module of E-business suite 11.5.10

#### **Programming languages and Other skillset**

- **AWS (DynamoDB, ElastiCache, EC2, OpsWork, CloudFormation, S3 ...)**
- **Google AppEngine, Compute Engine, Cloud Storage, Datastore, BigQuery. Maps API.**
- **Java/J2EE ( Servlets , JSP, Guava, Google Guice, JPA, JAXB)**
- **Javascript, CSS3, HTML5, jQuery**
- **Oracle Database , SQL, PL/SQL,MySQL, PostgreSQL**
- **PHP, Python, C , C++**
- **Couchbase, Memcache, Apache, APCu File cache.**
- **Matlab, Mathematica, Octave**
- **Basic Android Development Framework.**
- **Markup Languages (XML,XSLT,XSD,HTML)**
- **IDE (Jdeveloper, Eclipse , Netbeans, IntelliJ Idea, Sublime Text, Xcode )**
- **Webservices (SOAP, REST, JAX-RS, JAX-WS)**
- **Adobe Flex, Actionscript, GIMP, Lightroom,**
- **MapReduce, Hadoop, Mahout , Hbase, NoSQL Databases**
- **Apache Lucene , Stanford NLP, ElasticSearch**

#### **EDUCATIONAL QUALIFICATIONS**

<b>2010 – 2011</b>	<b>International Institute of Information Technology, Hyderabad</b> Attended PGSSP (Post graduate student status program) with the courses “Cloud Computing”, “Pattern recognition”, “Information Retrieval and Extraction”, “Multiple Text processing” to gain knowledge of bleeding edge technology around the information engineering world. CGPA - 8
<b>2002 – 2006</b>	<b>University College of Engineering, Burla (Estd 1956, Now VSSUT)</b> Bachelor of Engineering in Computer Science-76%-High First Division with Honors Data Structures, Analysis and design of algorithms, Automata theory, Object Oriented Analysis and design. Compiler Design.Web Technology
<b>2000 – 2002</b>	<b>Fakir Mohan College, Balasore, Orissa (Estd 1944)</b> CHSE Examinations 2002; Grade – 95%. Maths, Physics, Statistics, English, Chemistry
<b>1990 – 2000</b>	<b>Zilla School, Balasore (Estd 1853)</b> HSE Examinations 2000; Grade – 88%. Mathematics, Science, English, History, Geography

## ACADEMIC PROJECTS and TRAININGS

- 2004 Developed a module of Internal web services in Integrated Test Range (DRDO), Chandipur, using Active Server Pages and Oracle 8i.
- 2005 Designed, Hosted and Maintained College Website Using HTML, ASP and Ms Access
- 2006 Designed and developed a software system for recognizing and storing Geometric Shapes and Handwritten Characters using Artificial neural Networks in Java.(Implemented kohonen's algorithm)
- 2010 Automatic classification of unlabeled text data into two categories “grievance” and “non-grievance” by training known set of labeled data using Apache Mahout , an open source machine learning tool for distributed computing which can run on top of Hadoop MapReduce framework. This was a highly scalable system tested on 5GB of text data aggregated from various news websites’ public grievance section.Achieved 70% of accuracy.
- 2010 Implementation of classifiers for given the IRIS scan data set. Implemented Bayesian, Gradient Decent , Ho-Kashyap, K-nearest neighbour , pseudo-inverse methods of
- classification of iris data for diseases.(84% accuracy )
- 2011 Implemented search Engine from scratch without any external library using java for Wikipedia.Crawled, Indexed and build search engine for 8GB of English Wikipedia data.
- 2011 Implemented information extraction for slot filling. Implemented search by indexing the corpus and retrieval using Apache Lucene. Extracted the name value pairs of attributes pertaining to various named entities (person and locations)
- 2011 Created credibility assignment tool for various arguments and comments with facebook posts and comments as data source .

## Talks and Seminars as Speaker

- Introduction to web services and demo at SNIST Engineering college Hyderabad.
- IEEE Tutorial on Webservices with demonstration at BITS Hyderabad Campus
- At ( ATRI ) Arora Engineering College on Introduction to Webservice and trends
- CSI(computer society of India)Student branch Talk on Introduction to JavaScript and AJAX .
- Restful Web services and creating them using JAX-RS at SiliconIndia JAVA conference in 2011.  
<http://www.siliconindia.com/events-overview/java-conference-Hyderabad-JavaConfHyderabad2011.html>

## Hobbies, Interests and Activities

- Stargazing and astronomy. (Research and conducting local star parties), Astrophotography.
- Martial Arts (Black belt by Thai Martial Arts Association)
- Posting and solving problems in developer forums/IRCs.
- Writing and Technology blog posts at my blog neilghosh.com
- Playing and following cricket. Represent Oracle India in Corporate Cricket Leagues in Hyderabad..
- Coordinator of Internal Research and Development initiative Team “Avishkar” at Oracle India.
- Active member of IEEE Hyderabad section, acting as mentor of student branches
- Hosting and Volunteering in IEEE talks in Company Campus.

## Achievements

- Won prize in Tech-fest sponsored by Microsoft and NIIT for smart email system in 2005
- Fast Cycle racing (won 3<sup>rd</sup> position at University level)
- Won the “Hard-Talk” competition in spring festival in the university
- Won the Over Night “C” programming competition (6 hours long) in Technical Festival , programming the solution completely and fastest.
- Acquired the 1<sup>st</sup> position in the software quiz competition in the university
- Won 1<sup>st</sup> and 2<sup>nd</sup> prize in Fashion Show competition in 2005 and 2006 respectively.
- Participated with consolation prize in College of engineering Technology , Bhubaneswar for designing

Complete web portal and services.

- Name published in “Brainstorming” in “Knowhow” section of The Telegraph news paper for correct answers in Puzzle Solving.
- Completed DropQuest , a series of riddle challenge from DrobBox.com and won 5GB of free cloud storage

#### **Other Qualities**

- Believe in collaborative work with knowledge sharing leading to effective resource allocation.
- Recognized in current the team for effective communication skills both verbal and nonverbal.
- Goal oriented and hard working attitude with high sense of urgency.

#### **Language**

- Native fluency in English, Hindi and Oriya, Bengali, Sanskrit

Nationality: Indian