

SANTOSH RANGARAJAN

E 232, Kalpatru Sunrise, Thane, 400067 9892284361
email :Santosh.Rangarajan@gmail.com
linked In: <http://www.linkedin.com/in/santoshrangarajan>
medium: <https://medium.com/@sk-ranga>

Summary

Software Engineer with 18+ Yrs experience. Computer Science background with Strong leadership skills and emphasis on thinking by first principles.

- Experience with working with 6 different start-ups (Trading / BFSI / E-Commerce/ Health Care)
- 1 Million + lines of code written over span of 20 years
- Worked with teams that created/designed - **Core Banking Systems, Medical Prescription Systems, Trading Platforms , Ecommerce Platform, Gaming Platform,Web Platform**
- 10+ Years Experience of managing teams of different sizes
- Interests include - Algorithms, Data Structures, Programming Languages, Architecture and Mathematics

Exeperience

Company	From / To	Duration	Role / Designation
BSG IT Soft	Sep 2015 / Oct 2020	5.1 Years	VP Engineering
Neural Bits Technologies	Apr 2014 / Aug 2015	1.4 Years	CTO/Founder
Crowdanalytix.com	Apr 2013 / Jan 2014	0.10 Years	Architect
JP Morgan India	Aug 2011 / Sep 2012	1.1 Years	Asst Vice President
FXDD , NY	Feb 2007 / Jun 2011	4.5 Years	Lead Developer
Gametrust.com, NY	Jul 2006/ Jan 2007	0.7 Years	Web Developer
Audible.com , NJ	Feb 2005 / Jun 2006	1.5 Years	Web Developer
Jacobs Engineering, LA	Aug 2002 / Jan 2005	2.7 Years	Web Developer

Core Skills

Architecture, Design, Web, Microservices, REST, Performance, Optimization, Java , Go , Html , Node Js, javascript, Play Framework, Spring Framework, Kafka, Git, Maven, Mysql, Sql, Oracle, Nginx, Aws , Digital Ocean, Linux, Windows.

Education

M.S in Computer Science, 2002
Louisiana Tech University, Ruston, LA, USA (www.latech.edu)

PROFESSIONAL EXPERIENCE

BSG IT SOFT, MUMBAI - VP Engineering - Core Banking System

Sept 2015 - Oct 2020

Bsg IT Soft is software company facilitating software/automation needs of Cooperative banks

Key Contributions

- **Company Perspective**
 - a. Build/Set Up new verticals - Core Banking and Mobile from scratch - including Engineering, Team building and Processes
 - b. Build/ Set Up QA and Support Teams(L1 & L2)
 - c. Set Up Process for Code Review , Version control and Release management
- **Engineering Perspective**
 - a. Chief Architect of Turing Core Banking System - Launched in 2017 and implemented in 30+ banks across India.
 - Microservices architecture - Loosely coupled modules . Rest Interfaces for communication
 - Unique solutions to finish Month end/ Year end in matter of minutes (Conventionally it takes 8/10 hrs)
 - Supports multiple databases - SQL, MySql, MSSQL and Oracle
 - Seam less channel integrations (ATM, Mobile, Internet)
 - Single Transaction time - 100-200 ms
 - Intelligent Caching and Performance Optimizations
 - b. Engineering of - UPI Switch, Mobile Switch , Mobile Banking & Internet Banking
 - c. System wide security using one way Hash to prevent frauds
 - d. Fraud Monitoring using real time broadcasting and limit based controls
 - e. System Performance Monitoring and improvements
 - f. Set up support team - Customer and Production Support
 - g. Site Reliability - System Performance Monitoring and improvements
 - h. Introduced new platforms/frameworks/technologies in company - AWS, DigitalOcean,Play, Spring ,Kafka,Git,NodeJs, Nginx
 - i. Manage Product level customizations

Environment

Play Framework, Spring, Java, Scala , Nginx, NodeJS, MySQL, MSSQL , Windows, Ubuntu , Tata Infrastructure

NEURALBITS TECHNOLOGIES, MUMBAI - CoFounder / Director

March 2014 - Sep 2015

NeuralBits Technologies is software company based out of mumbai. It develops softwares related to prescriptions digitization and hospital automation

Key Contributions

- Co-Founder of Company
- Chief Architect of first version of prescription software Vault - which facilitates digitization of patients prescriptions
 - a. Implemented across 25 + Hospitals across Mumbai
 - b. Backend implemented using Play Framework and Hosted at Digital Ocean

- c. Mobile application for doctors to get patient information quickly

Environment

Play Framework, Scala , Nginx,MySQL, Linux , Digital Ocean

CROWDANALYTIX.COM, BANGALORE - Architect

April 2013 - Jan 2014

Crowdanalytix.com is crowdsourcing platform which facilitates companies to leverage advanced analytics (ideation, predictive analytics, visualisations, data-mining) through global community of data scientists

Key Contributions

- Instrumental in launching first version of Crowdanalytix.com platform (Spring , JPA , Hibernate,MySQL)
- Re architecture of site (separating of UI layer and application Layer). UI moved into NGINX
- One-click deployment for platform code base (Debian packages)
- Design of Automated Test suite for crowdanalytix.com
 - a. Four dimensions - OS , Browsers, Modules, Action
- Migrated entire platform to https
- Managing aws infrastructure of company
- Engineering improvements/items
 - a. Aspects for logging
 - b. Ownership Based security
 - c. Tracking UserHistory - via interceptors
 - d. Automated Back up of AWS images
 - e. Automated Back up of DB .
- Responsible for designing / implementing Facebook data-collection facilitate brand analysis
 - a. Posts, Comments , Likes
 - b. 58 brands - Auto, Electronics, Food, Health & Beauty
- Enhancements associated with platform
 - a. OneClick Login, Contests, People, Forum, Private Messaging

Environment

Spring MVC, Spring Core, Tomcat, Nginx, AWS

JP MORGAN INDIA, MUMBAI India

August 2011 – September 2012

Worked as Tech lead(Asst Vice President) with Trade Finance Team . Involved in development of Supply Chain Financing Product used by JP Morgan Clients. Responsible for Architecture , Design, Development and Technical Guidance associated with Enhancements in Product

Key Contributions

- **Technical Contributions**
 - a. Integration with Business Intelligence Repository (Loans, Interest, Invoice, Payments)
 - Responsible for Analysis, Architecture and Design of application
 - Implemented as Web-Service (Provider-Side) with XML as message format
 - Loans were sent real time and Interest, Invoice, Payments was sent as EOD
 - Integration channel was MQ based
 - b. Integration of Product with SDEMP - Local Loan system in Brazil
 - Responsible for Analysis, Architecture and Design of application
 - Implemented as Web-Service (Provider-Side) with XML as message format
 - Loans were sent real time
 - Integration channel was NDM (proprietary file transfer protocol)
 - c. Migration from Clear Case to SVN
 - d. Implemented Software Standards/ Best Practices / Processes within Team.
 - Jira, Crucible, Hudson

e. Perform periodic Code review, Mentoring /Guiding junior developers

- **Management Contributions**

- a. Training Plan for newly formed Team in Mumbai (13 developers)
 - Component based KT sessions by forming small teams
 - KT session on Production issues to bring team to speed
 - Training template for new joiners
 - Weekly stand-up meetings
- b. Growing Team size from 13 - 17
- c. Responsible for delivery of Projects
- d. Work with stake holders to Understand requirements , Convey the feasibility and align priorities
- e. Working with Sr Management to provide status updates
- f. Performance Reviews and Appraisals

Environment

Java , JSP, Servlets, JMS, XML ,Eclipse , Weblogic, Oracle , Windows NT, Linux.

FXDD LLC, New York, NY

March 2007 – June 2011

FXDD is Forex Trading firm based out of NYC.

Worked with FXDD as Sr Software Engineer/Project Lead with Integrations Team . Tasks involved Designing/Implementing solutions for integration between FXDD with external Clients (Banks, News Providers, Brokers etc)

Key Contributions

- Involved in analysis, design and development of **Straight Through Processing / Post Trade** integration between FXDD system and third party Banks. (Goldman Sachs, UBS, Morgan Stanley, Deutsch Bank, Credit Suisse, JP Morgan) Integrations were done using variety of protocols like FIX, HTTP Socket, XML , Custom Bank api's.
- Involved in design and development of application for integration between FXDD and News providers (Thompson Reuters, DowJones etc)
- Developed API/ FIX application for FXDD clients (Brokers) to interface with FXDD platform
- Implemented build/process tools - Hudson, Maven, Nexus
- Analyze requirements for project, draft design and assign tasks to developers .
- Advising Internal/ External teams around organisation on good practices/solutions to problems.
- Help/Work with production team to troubleshoot/fix production issues

Environment

Java , JMS, XML ,IntelliJ , Weblogic, Maven, Hudson, Nexus, Oracle , Windows NT, Linux.

GAMETRUST LLC, New York, NY

June 2006 – Feb 2007

Gametrust was start up based on NYC which providing gaming platform integration to web-services

Worked as Developer in Web technology team. Tasks included but not limited to development/support of web applications, installation set up of company products for various clients

Key Contributions

- Involved in development/maintenance of Gametrust web deployments for new clients/existing clients (quizformoney.com, kingsolomons.tv, moneygaming.com , miniclip.com)
- Providing enhancements/support to Administration tool used by administrators of various sites.
- Involved in research/development to provide integration between PHP front end used by one of our clients and Gametrust Java backend
- Involved in development of PHP interface for Gametrust's Web Service application involving

payments system.

- Involved in daily maintenance/support issues related to website and reporting applications.

Environment

Java , JSP, Servlets ,Eclipse, Tomcat, MS SQL, Windows NT, Unix

AUDIBLE INC., Wayne, NJ

Feb 2005 – May 2006

Audible (An amazon company) is web/e-commerce company which sells digital audio books. Key developer in web development team. Involved in design, development, and maintenance of E-commerce applications using Java, PL/SQL and BroadVision Components. Instrumental in the development of www.audible.co.uk from scratch.

Key Contributions

- Involved in design, development and implementation of several payment projects like BT Click & Buy, Switch/Maestro card , AVS (International Address Verification Service) for Visa
- Integrated Endeca software (search) in the site. This provided better search functionality for users,
- Implemented several web projects(online cancellation, Claim code tool, Gift Center application) based on requirements from marketing team
- Involved in daily maintenance/bug fixes/enhancements of website (issues).

Environment

Java , JSP, Servlets ,Eclipse, XML, Broad Vision, Oracle, Unix

JACOBS ENGINEERING INC., BATON ROUGE, LA

August 2002 – January 2005

Worked as developer in the Web Infrastructure Applications team. Our Team was responsible for design/development and implementation of Java and PL/SQL based portal applications on Oracle 9iAS for 25,000+ users.

Key Contributions:

- Instrumental in the design, development, implementation, and support of the first version of JNet (Jacobs Intranet site) on Oracle 9iAS Portal.
- Developed enterprise web applications and portlets for JNet using Java, PL/SQL, and PDK on Oracle 9iAS.
- Developed Jacobs Asset Events System (In house tool) used to manage company hardware assets (Servers, Routers, Circuits) worldwide.
- Redesign and development of site from perl, to Java/MySQL

Environment

Java , JSP, Servlets ,Oracle