**Stanley Jebadurai Ramakrishnan**

**+1-469-436-3510**

**sdhandapani@selsoftinc.com**

**Professional Summary**

With over 15+ years of experience as a **Technical Java/Python Senior consultant, Machine Learning and Product Architecture**, I have a strong background in design, development, team building, and implementation across various domains and platforms. My expertise lies in crafting complex applications and utilizing Service-oriented architecture and Object-Oriented Design principles to deliver robust solutions. I have successfully developed and deployed large-scale web applications and web services in a Software-as-a-Service environment, demonstrating my ability to handle projects at scale. My track record reflects my commitment to consistently surpass challenging goals. As a part of the strategy and innovation team, I actively contribute to solving business problems using Artificial Intelligence. This showcases my adaptability and passion for integrating cutting-edge technologies to drive innovation and create valuable solutions for businesses. Overall, my deep technical knowledge, leadership capabilities, and history of success make me a valuable senior consultant for organizations seeking top-tier expertise in Java and Python technologies. I am driven by a passion for excellence and continuously strive to deliver impactful results for both clients and projects.

**Technology Skills**

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| --- | --- |
| Language | Java, Python, Node.js, JavaScript, jQuery, CSS, |
| App/Web Frameworks | Spring MVC, Spring Boot, Apache Struts 1, GWT, Django, Flask, Bottle |
| NLP | NLTK, spaCY- Lingustic Features, Text Categorizer |
| Machine/Deep Learning | Logistic regression, K-means, Keras, CNN, RNN |
| Data Extraction | Tesseract, Popppler, PyMuPDF |
| Data Stream | Kafka |
| Message Broker | Apache ActiveMQ |
| Database | PostgreSQL, MySQL, MongoDB |
| Monitoring Tools | JVisual VM, Heap dump analyzer and J-console |
| DevOps | GitHub, Maven, Ant, Sonar, Nexus, and Jenkins |
| Mobile App | Android native and hybrid Ionic |
| Web and App Server | Tomcat, Apache2, WebLogic, WebSphere |
| Web Service | Soap, RESTful Web Services, Jakarta XML Web Services |
| Cloud platform | AWS |
| Container Technology &  Management | Kubernetes, Docker |

**Strength**

* **Software Development Methodologies**:
  + Proficient in working within Agile (SCRUM) and Test-Driven Development (TDD) methodologies.
  + Extensive experience in handling all phases of the Development Life Cycle.
  + Identified memory leakage in the product and helped the team solve it.
* **Pre-sales and User Interaction**
  + Engage in pre-sales activities.
  + Work closely with business today issues, resolve user queries.
* **Application and Server Management**
  + Analyzing, troubleshooting, and taking appropriate actions for Application/Web server error logs
  + Analyzing Thread and Heap dumps.
  + Experience in monitoring, logging, and management tools that integrate with AWS
* **Front-end Development**
  + Proficient in UI design, I developed the front end using JSP, HTML5, CSS3, JavaScript, Ajax, JQuery, AngularJS 1.0, and Angular.
* **Java Development**
  + Extensive experience in Java frameworks such as Spring, Spring Boot, and Hibernate.
  + Hands-on experience with Core Java, including Multithreading, Concurrency, File handling, I/O, Generics, data structures, collections, and garbage collection.
  + Experience with Java 8 features like parallel Streams, Lambdas, functional interfaces, and filters
  + Experience in developing Microservices using Spring-Boot
  + Knowledge of Java memory management and garbage collection
  + Expert in working with the Hibernate Criteria API and HQL for querying the database.
  + Experience with SOAP Web services technologies using JAX-WS and REST Web services technologies using OAUTH.
  + Familiarity with Java build tools like Maven
  + Complete understanding of the DevOps process with continuous integration using Jenkins
* **Python Development**
  + Strong proficiency in the Python programming language and its standard libraries
  + Experience with Python web frameworks like Django, FastAPI, or Flask for web application development
  + Knowledge of data manipulation and analysis using libraries like Pandas, NumPy, and SciPy.
  + Expertise in working with databases using Python libraries like SQLAlchemy or Django ORM.
  + Experience with Python-based web scraping and data extraction using libraries like BeautifulSoup or Scrapy
  + Skillful in building RESTful APIs with Python using frameworks like Flask-RESTful or FastAPI.
  + Understanding cloud computing platforms and Python integrations with cloud services.
  + Familiarity with testing frameworks like pytest and unittest in Python.
* **Machine Learning and Product Architecture**
  + Defined strategy, roadmap, and spearheaded implementation of product lines with the ML platform/products architecture.
  + Built an internal competency unit in NLP, Machine learning, and data engineering.

**Achievements**

* Cognitive RPA program leveraging iDX won the “Celent Model Wealth Management” award in the “Emerging Technology” category
* Winner of the National Level Intellect: “Lakshya” White Paper contest
* Going Extra Mile (GEM) award winner for significant efforts and consistent contribution to Capital market products
* Going Extra Mile (GEM) award winner for implementation of CNN (Convolutional Neural Networks) based image classification in e-market (Government e-marketplace
* Spot award for developing an accuracy benchmarking suite for IDX products
* Received most precious award KONARK. Konark award is presented to a person who is selected as a role model for the rest of the colleagues. Konark is mainly given to appreciate his attitude and ability to be a brand ambassador for Intellect

**Professional Experience:**

**Intellect Design Arena -** **San Antonio TX**

**Client:** St. James's Place

**Product: Magic Platform** **March 2021 to Present**

**Role: Java Technical Architect**

**Description**: The platform is an AI-powered intelligent document processing platform that lets you design, deploy, execute, and manage document AI models. These models enable business users to contextually extract information from unstructured and semi-structured documents and can be instantly consumed and managed as an API, which we refer to as “Assets.” The platform’s self-serve and low-code capabilities enable users to efficiently, accurately, and productively manage their document processing needs without the requirement of technical expertise or coding knowledge. The Platform supports various documents and uses cases to help organizations understand, process, and manage large amounts of unstructured data.

**Responsibilities:**

* Involved in requirement gathering, estimation, and planning discussion
* Involved in analysis, design, development, testing, implementation, and support
* Following agile methodology in the development and maintaining the system
* Involved in the complete life cycle of the project, from the requirements phase to the production phase
* Design and develop microservice architecture
* Implemented spring restful and FastAPI Web services
* Fixed the vulnerability base score fix and did end-to-end testing in Dev, UAT, and pre-production environments
* Review, test, and debug team members' code
* Used design patterns like Singleton, Data Access Objects, Factory, and MVC patterns.
* Developed modules for data extraction from native and scanned pdf
* Worked on image preprocessing techniques
* Developed and tested an accuracy benchmarking suite
* developed a regression tool for performance and accuracy
* Responsible for giving technical solutions to the team by making some POCs.
* Manage multiple tasks with changing priorities and tight deadlines
* Analyze and fix Twsitlock, VeraCode, and Sonar issues

**Technologies:** Java, FastAPI, Node JS, Spring Boot JavaScript, Jquery, AWS lambda, Tesseract OCR, Microservices, Docker, Kubernetes, Active MQ

**Product: Intelligent Data Extraction June 2019 to February 2021**

**Description**: Intelligent Data Extraction (iDX) - An AI-based platform to extract business entities from a variety of documents, scanned images, and native PDF documents. It is highly modular and has a pipeline architecture whereby the functionality desired can be set/reset per document type.

**Responsibilities**

* Involved in requirement gathering, estimation, and planning discussion
* Involved in analysis, design, development, testing, implementation, and support
* Involved in system architecture design
* Following agile methodology in the development and maintaining the system
* Involved in the complete life cycle of the project, from the requirements phase to the production phase
* Design and develop microservice architecture
* Developed modules for data extraction from native and scanned PDFs,
* Implemented image preprocessing technique to improve data extraction accuracy
* Integrated Pymupdf module to extract native pdf documents
* Integrated Tesseract OCR for scanned data extraction.
* Use Spacy NER for entity extraction
* Design and develop a dashboard for batch processing
* Implement batch processing
* Design and develop a recovery system
* Design and develop alert machinsum
* Implemented CI/CD pipelines

**Technologies:** Bottle, Node JS, JavaScript, Jquery, AWS, Tesseract OCR, Microservices, Docker, Active MQ

**Company: Intellect Design Arena Nov 2014 to May 2019**

**Client:** Government e Marketplace, India

**Product: Innovation Practices** **Oct 2018 to May 2019**

**Role: Java Lead**

**Description:** MQ designed and developed an AI-Based “Voice conversational chatbot.” Implemented Stock Market Feed Ingestion. designed and implemented APIs, and ML Models to classify documents, perform entity recognition, analyze text similarity, cluster documents, segment images/texts, custom NER. Re-architected mobile application for Brokerage system to improve performance

**Technologies:** SpaCy NER, Plotly js, Django, Apache, WSDL, CNN, ANN, Tesseract, OpenCV

**Client Name**: Tacirler Investment (Turkey)

**Product: Intellect Order Management System (OMS) Nov 2015 to Sep 2018**

**Role: Senior Project Lead**

**Database**: MsSql, Oracle

**Description:** Intellect Order Management is a System that provides the users of the broking firm. Intellect OMS (Order Management System - Brokerage) solution that includes RMS (Risk Management System), embedded Algo Trading Engine, In-bound FIX interface with co-location implementation at Tacirler premises and Turkey Stock Exchange (Borsa Istanbul) for swifter trading, and Intellect Treasury with the cross assets offerings (FX, Interbank, Fixed Income Derivatives to provide canned reports) that interfaces with Reuters, CORE, SWIFT, and their back-office system. The flexible and configurable framework will enable Tacirler to ensure that its client base will remain engaged throughout the investment process with a personalized front end.

**Technologies**: JavaScript, AngularJS, jQuery, Ajax, CSS, Restful API, JQX Widget, Axis 2 Web Service

**Responsibilities**

* Involved in Requirement Analysis and System Design.
* Serving as Team Leader.
* Active involvement in Development
* Designed, new functions in Web/Mobile-based Investor portals
* Added SOAP-based web services interface for investor portal and integrated it with iWeath product of Intellect
* Implemented Elasticsearch and audit reports for log analyzer module, enabling production support efficiency
* Involved in analyzing, troubleshooting, and taking appropriate actions for Application/Web server error logs and analyzing thread and heap dumps

**Client Name**: Kotak Bank

**Product: Intellect E- Treasury**  **Nov 2014 to Oct 2015**

**Role**: Java Lead

**Database**: Oracle 10g

**Description**: Intellect E-Treasury is a web-based customer-facing solution that has been designed to address the e-banking needs of a bank's corporate customers and their retail branches. It is envisaged as a front-end portal solution, specifically designed to enable banks to offer their corporate customers the facility to monitor ongoing rates in the market. Furthermore, it enables them to book deals for instruments online, without any assistance/support from Bank Users.

**Responsibilities**

* Serving as a senior developer on the team
* Active involvement in the development
* Provide guidance and directions to the software development team, ensuring the team operates cohesively and efficiently
* Overseeing project planning, scheduling, and execution to meet deadlines and deliver high-quality software solutions
* Assigning tasks, setting priorities, and monitoring progress to ensure tasks are completed on time and within scope
* Technical guidance and support to team members, resolving technical challenges, and reviewing code for quality and adherence to best practices.

**Technologies**: JavaScript, AngularJS, jQuery, Ajax, CSS, Restful API, JQX Widget

**Company:** Appsolutely (Singapore)

**Product: Email SMS Blast June 2014 to October 2014**

**Role**: Lead Java Developer

**Database**: MsSql

**Description**: The system was developed to address the needs pertaining to sending emails or SMS to a large group of people known as subscribers. Anyone can subscribe and access the system. In order for the user to access the full functionality of the system, the system requires the user to pay. The program is designed in such a way that, once the payment is confirmed by the system, the user is allowed full functionality. Additionally, the system will allow paid subscribers to create groups and send multiple emails or SMS. Another feature of the system includes generating various report modules for things like email bounced lists, SMS bounced lists, and subscriber lists.

**Responsibilities**

* Involved in Requirement Analysis and System Design.
* Serving as Team Leader.
* Active involvement in Development.

**Technologies**: AngularJS, jQuery, Ajax, CSS, ExpressJS, Restful API with OAuth integration

**Company: ZeroOne Technologies Pvt Ltd** **July 2007 to May 2014**

**Client Name**: Mystifly

**Project: Corporate Travel Desk** **January 2014 to May 2014**

**Role**: Lead Java Developer

**Database**: MsSql

**Description**: The Corporate Travel Desk system is exclusively built to facilitate the user's booking of Airline tickets for a corporate employee. The employee will be able to book the ticket to which he or she is entitled, as the entitlement depends on the policies to which the user is linked. The system mainly has two roles, i.e., admin and User. A ticket booked by the user is taken to the appropriate managers for approval. Once the ticket has been approved by the respective manager, a notification stating the progress of the booking is sent to the user. In this process, a ticket can also be rejected based on different criteria.

**Responsibilities:**

* Providing guidance and direction to the software development team, ensuring the team operates cohesively and efficiently
* Overseeing project planning, scheduling, and execution to meet deadlines and deliver high-quality software solutions.
* Assigning tasks, setting priorities, and monitoring progress to ensure tasks are completed on time and within scope
* Technical guidance and support to team members, resolving technical challenges, and reviewing code for quality and adherence to best practices.
* Coaching and mentoring team members to enhance their skills, knowledge, and professional development
* Ensuring software quality through comprehensive testing and review processes, adhering to industry standards and compliance requirements.

**Technologies**: Java, Spring 3.0, Hibernate 3.0, Jquery, Android, Rest Web Services, AngularJs, JQX Widget

**Client Name**: Tamil Nadu Government

**Product: eRation (Fair Price Shop) March 2013 – Dec 2013**

**Role**: Lead Java Developer

**Database**: MsSql

**Description**: The FPS (Fair Price Shop) automation module provides the core functionality for automating the entire flow of receiving goods from AWDs to distribution to end consumers (Card holders). The System consists of a tablet-based solution along with the TechlogiQ e-Ration mobile application, server-side software for permanent storage and administration, as well as a Mobile Device Management server for the security administration of the tablet.

**Responsibilities**

* Providing guidance and direction to the software development team, ensuring the team operates cohesively and efficiently
* Overseeing project planning, scheduling, and execution to meet deadlines and deliver high-quality software solutions.
* Assigning tasks, setting priorities, and monitoring progress to ensure tasks are completed on time and within scope
* Technical guidance and support to team members, resolving technical challenges, and reviewing code for quality and adherence to best practices.
* Coaching and mentoring team members to enhance their skills, knowledge, and professional development
* Ensuring software quality through comprehensive testing and review processes, adhering to industry standards and compliance requirements.

**Technologies**: Java Spring 3.0, Hibernate 3.0, AngularJS, Jquery, Android, Rest WebServices

**Client Name**: Sniracorp

**Project: Petcare** **Sep 2012 – Mar 2013**

**Role**: Lead Java Developer

**Database**: MySql

**Description**: This project is designed for Pet care. The purpose of the system is to demonstrate Calendar functionality and appointment-fixing through an online medium. The pets’ owners will be able to schedule the appointments of their pets, while the Kennel owner will be able to view their new appointments, reschedule appointments, cancel appointments, and also confirm any requests. The pet owner can schedule appointments for their registered pets with ease. The slot option provides the number of spaces available in the kennel. The total space before confirmation and the waiting list allowed by the kennel are also provided. It can be changed by the kennel owner if needed. At the time of the booking appointment, the chosen slot values for the selected kennel will be verified to book the appointment request.

**Responsibilities:** Design, development, code review and unit testing.

**Technologies**: Java, Spring 3.0, Hibernate 3.0, Jquery, Android, IOS

**Client Name**: Ing Vysya Bank

**Project: Profile for Linux (Customized OS)** **Sep 2011 – April 2012**

**Role**: Lead Java Developer

**Database**: Linux

**Description**: The client was planning to use a Linux based device for eLearning targeted at rural India. The Linux kernel had to be optimized for fast boot time, operation speed and low power consumption. At ZeroOne, we removed all the unnecessary services and components and did a custom Linux build. The boot time was reduced by allowing only minimum services to run during boot time; other services were made to start in parallel in the background. During run-time, no additional services ran and those that were unused for a certain time would switch to sleep mode. This helped reduce the power consumption.

**Responsibilities**

* Part of Requirement Analysis and Customization of the OS.
* Used Wine interface and installed teller application in linux machine
* Design and developed Dashboard for online user
* Design and developed Query System

**Technologies**: Java, Spring 3.0, Hibernate 3.0, Jquery, Wine, CentOS

**Client Name**: Scope International (Standard Chartered Bank)

**Project: Access Provisioning Tool** **July 2009 – Sep 2011**

**Role:**  Lead Java Developer

**Database**: PostGre Sql

**Description**: This system will provide an easy means of automating the agent’s activities with regards to RMS/Remedy update, Native application and RPT update. The system will operate on the agent’s confirmation before each activity or update. The data gathered/derived is validated and displayed for agent’s approval. Once the approval is given, the system will automate the process of updating the RMS/Remedy, performing the necessary activity in native application and finally updating the RPT and RMS/Remedy. The system will have audit for all the activities done by the agent.

**Responsibilities**

* Developed the UI side for the automation agents.
* Provided support during UAT stage of the project.
* Providing guidance and direction to the software development team, ensuring the team operates cohesively and efficiently.
* Overseeing project planning, scheduling, and execution to meet deadlines and deliver high-quality software solutions.
* Assigning tasks, setting priorities, and monitoring progress to ensure tasks are completed on time and within scope
* Technical guidance and support to team members, resolving technical challenges, and reviewing code for quality and adherence to best practices.
* Coaching and mentoring team members to enhance their skills, knowledge, and professional development.
* Ensuring software quality through comprehensive testing and review processes, adhering to industry standards and compliance requirements.

**Technologies**: GWT, Ajax, CSS, Javascript

**Client Name**: Ing Vysya Bank

**Project: Credit Risk Expose System Tracking**  **July 2008 – July 2009**

**Role**: Java Developer

**Database**: MsSql

**Description**: A system was developed to address the loan application process existing within the client’s banking operations. Both corporate and individual customer loan applications are processed using the system, which runs on a series of checks and stops maintained as part of Bank and RBI policies. The cross-section of usage is pan-India. Integration with the core banking system is in place for real-time operations.

**Responsibilities**

* Design front-end, development, and unit testing.
* Collaborate with product managers, business analysts, and other team members to understand requirements and translate them into technical specifications
* Design and implement efficient and scalable code, adhering to best practices and industry standards
* Troubleshoot and debug software issues, and propose effective solutions to address them.
* Optimize application performance and identify opportunities for improvement.

**Technologies**: Struts 1.3, Ajax, CSS, JavaScript

**Client Nam**e: Manpower Consultants

**Project: Centaur** **Jan 2008-Jun 2008**

**Role**: Java Developer

**Database**: MsSql

**Description**: This tool is an aggregate of three independent modules; Hunter, Harvester, and Feeder. These modules are meant to be deployed at various points on Manpower's system (in-country and Global). REMANT's modular structure allows the individual components to be employed as standalone tools. REMANT's primary objective is to build a complete database of resumes on Direct Talent gathered from Manpower's in-country users' systems.

**Responsibilities**

* Development of Front end and Unit testing.
* Collaborate with product managers, business analysts, and other team members to understand requirements and translate them into technical specifications
* Design and implement efficient and scalable code, adhering to best practices and industry standards.
* Troubleshoot and debug software issues, and propose effective solutions to address them.

**Technologies:** Struts 1.3, Ajax, CSS, JavaScript

**Client Name**: Ing Vysya Bank

**Project: Customer Compliant Management System July 2007– Dec 2007**

**Role**: Java Developer

**Database**: MsSql

**Description**: As a lifeline for smooth and normal banking operations, the complaint management system was developed from scratch to consolidate and monitor the resolution of complaints reported to our client (an international bank) through various channels (logged by its operatives). Escalation patterns and policies, resolution times, and monitoring is handled by this system. Alerting and reporting modules are built in. The system has a Pan India cross-section of usage. Integration with the core banking system is in place for real-time operations.

**Responsibilities**

* I worked on the Front-end part
* Collaborate with product managers, business analysts, and other team members to understand requirements and translate them into technical specifications.
* Troubleshoot and debug software issues, and propose effective solutions to address them.

**Technologies**: Struts 1.3, Ajax, CSS, JavaScript

**Education**

* Master of Computer Application in Madras University -2007
* Bachelor of Computer Application in Madras University -2004

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