

**KARTHIKEYAN NITHIYANANDAM**

**Introduction / Cover Letter:**

Dear Recruiter / Hiring Manager,

I am Karthikeyan from Chennai, Tamil Nadu, India. I have 11.8 years of experience in Information and Communication Technology (ICT). I am an enthusiastic developer, passion to do coding by using **Java8+**, **J2EE**, **Spring Ecosystem** and **Open-source** frameworks where I am mainly part of. On top of the above said base skills I have also worked in **Microservices architecture** by applying **12 factor application** terminologies. Also, I worked in the following cloud platforms **Pivotal Cloud Foundry (PCF)**, **Azure DevOps (Repos, Pipelines), Amazon Web Services (EC2, S3, BeanStalk, Code Commit, Code Build, Code Deploy, Code Pipeline, Cloud Watch, Lambda, API Gateway)**.

With more than 10+ years of experience and various tools and technologies I can provide solutions for your business problem as well as mentoring the team members to develop a product or an application. Aspiration to learn Spark, Scala, Kotlin languages in near future. Futuristic vision is to learn AI and ML.

During my tenure at Ford Bank IT, Germany (via Ford India), I got an opportunity to lead a small team for major application redesign and mentoring team members in a positive spirit to complete the product and launched on time. Because of that, I got more visibility in the leader's level in Germany and UK. Also, I visited Cologne, Germany in the year 2016 for architecture redesign.

Currently, I am working for Rabobank, Netherlands (via Cognizant – Digital Engineering Practice India) for their **Tribe**: Payments **Area**: Accounts Administration and Association for Sales and Services department related application. I am playing as a Senior Java Developer + Technical Lead role for this Area.

**Professional Experience:**

* Working as a **Senior Java Niche Developer for Rabobank, NL** (via **Cognizant India**), Chennai from May 2019 to till date.
* Promoted to Technical LeadinFord Motor India (Ford Credit IT), Chennai from October 2018 to March 2019.
* Software Analyst in Ford Motor India (Ford Credit IT), Chennai from August 2015 to Sep 2018.
* Associate in Cognizant India**,** Chennai from January 2012 to August 2015.
* Software Engineer in Emergys Software, Chennai from November 2010 to January 2012.
* Software Engineer in Scientific Publishing Services, Chennai from August 2008 to Nov 2010.

**Personal / Social Portfolio Information:**

For more information about me please visit my [LinkedIn](https://www.linkedin.com/in/karthikeyan-nithiyanandam/) and for my personal coding related repositories visit my [GitHub](https://github.com/karthikeyan-ng).

**Business Portfolio Information:**

* Banking Products (Payment Accounts Area)
* Vehicle Financing (for Car Dealers as per German Regulations)
* Insurance (for Auto and Home products as per U.S Regulations)
* Healthcare (for Hospital Management products as per U.S hospitals Compliant)

**References:**

During my tenure at Ford Bank IT, Germany (via Ford India) I was reporting to Mr. Pascal, IT Lead in Germany and his [Xing](https://www.xing.com/profile/Pascal_Krahmer/) details.

**Academic Qualifications:**

* **MCA,** [Bishop Heber College](http://www.bhc.edu.in/), [Bharathidasan University](http://www.bdu.ac.in/) – from 2005 to 2008, Trichy, **I-Class. 74%**
* **BSc (CS)**, [St. Joseph’s College](http://sjctni.edu/), [Bharathidasan University](http://www.bdu.ac.in/) – from 2002 to 2005, Trichy, **I-Class. 68.8%**

**Technical Certifications:**

OCJP 6, MongoDB, [List of learnings and course completion certificate.](https://github.com/karthikeyan-ng/e-learnings-certificate_udemy)

**Technology Skills:**

* **Programming Language:** Java 8 and 11 | Groovy
* **Spring Ecosystem:** Advance knowledge of applying various Spring concepts Core,Beans,Web,AOP
* **Spring Boot Modules:**
  + **Developer Tools:** Spring Boot DevTools | Lombok | MapStruct
  + **Web:** Spring Web | Spring HATEOAS
  + **Security:** Spring Security (FormBased|JWT|OAuth2.0)
  + **SQL:** JDBC API | Spring Data JPA | Flyway Migration | JOOQ Access Layer | H2 | MS SQL Driver | MySQL Driver| Oracle Driver
  + **NoSQL:** Spring Data Redis (Access + Driver) | Spring Data MongoDB
  + **OPS:** Spring Boot Actuator, Micrometer
  + **Messaging:** Spring for RabbitMQ
  + **Testing:** Contract Verifier | Contract Stub Runner
  + **Spring Cloud Config:** Config Client | Config Server
  + **Spring Cloud Discovery:** Eureka Discovery Client | Eureka Server | Cloud Foundry Discovery
  + **Spring Cloud Routing:** Zuul | Ribbon | Gateway | OpenFeign
  + **Spring Cloud Circuit Breaker:** Hystrix | Hystrix Dashboard
  + **Spring Cloud Tracing:** Sleuth
  + **Pivotal Cloud Foundry:** Cloud Config | Service Registry | Circuit Breaker
* Hands-on knowledge on creating Enterprise level Restful services using
  + **Open API 3** (using YAML)
  + **Swagger UI** (using Annotations)
* **JPA 2.x / Hibernate:** Advance knowledge of creating Entities using Annotations
* **Cloud Platforms:**
  + **Pivotal Cloud Foundry (PCF)**
    - Hands-on knowledge on developing and deploying cloud-native applications (Microservices) on Pivotal Cloud Foundry (PCF).
  + Microsoft Azure (Repos | Pipeline)
  + Amazon Web Services (AWS): EC2, S3, EBS, RDS, Code Pipeline, Code Commit, Code Build, Cloud Watch, Lambda, API Gateway
* **Development Principals:** Design Pattern, SOLID, DRY, KISS
* **Development Operating System:** MacBook Pro, Windows 10
* **Development Methodology:** Agile, Waterfall
* **Agile Tools:** JIRA, Confluence, FunRetro, Rally.
* **Build Tools:** Maven, Gradle
* **Source Control:** Git, BitBucket, Azure Repositories, AccuRev
* **Continuous Integration and Deployment:** Jenkins, Azure Pipelines, IBM UBuild and UDeploy.
* **Artifact Management:** Nexus
* **Code Quality Tools:** Sonar Qube, Sonar Lint
* **IDE for Development:** IntelliJ IDEA, Spring Tools Suite, Eclipse, IBM RAD.
* **Application / Web Servers:** Oracle WebLogic, IBM WebSphere, Apache Tomcat.
* **Containerization:** Docker
* **API Testing Automation:** REST Assured, Cucumber BDD, Spring Cloud Contract, Selenium (Basic)
* **Testing Frameworks:** Junit 4 and Junit 5 (Jupiter), Mockito, Hamcrest Matchers
* **Testing Tools:** SOAP UI, Postman, Swagger UI
* **UML:** Enterprise Architect, draw.io, Visio
* **RDBMS:** DB2, SQL Server, MySQL, Oracle
* **NoSQL:** MongoDB, Redis
* **Web Technologies:** HTML5, JS, JQuery, CSS, Angular 6, PrimeNG
* Able to write application document using **Markdown (md)** file format.
* Intermediate knowledge on JMS / Spring Messaging module (RabbitMQ).
* Expertise knowledge on SOA (Service Oriented Architecture) both provider and consumer.
* Expertise in applying various XML technology (XML | XSD | XSLT | XPATH)
* Intermediate knowledge on Redis.
* Good implementation knowledge on creating application architecture - HLD | LLD | DBD
* Good analytical and problem-solving skills.
* Able to do Pair | Mob programming. Remote collaboration using web tools (WebEx, Skype, Teams, Zoom)
* Able to work independently without managerial supervision.
* Passion to learn new technology or language by exploring on myself to keep up to date as per industry trending.

**PROJECT DETAILS**

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| **AAA & SS (ACCOUNTS ADMINISTRATION AND ASSOCIATION FOR SALES AND SERVICES) – DOCA Module Migration to Cloud** | | |
| **Client** | **:** | Rabobank, Netherlands |
| **Team Size** | **:** | 6 (2 offshore & 2 onsite – Cognizant Cloud Booster Team) |
| **Project Type** | **:** | Banking Sales and Service |
| **Software Used** | **:** | Java11, Spring Boot2.2 (Web, Actuator, Json, Security, DevTools), Spring Cloud Contract, Lombok, MapStruct, SwaggerAPI/UI, OpenAPI 3.0, RestAssured, Junit5, JIRA, Confluence, Bitbucket, SonarQube, Azure DevOps(Pipelines, Repos), IntelliJ IDEA, Nexus Repository, Maven, PCF (Pivotal Cloud Foundry). Agile. |
| **Environment** | **:** | MacBook Pro |
| **Duration** | **:** | Jan 2020 to till date. |
| **Role** | **:** | Java with Cloud Migration Developer |
| **Responsibility** | **:** |  |
| **Description :**  Rabobank Online banking Sales and Services related application(s). Rabobank provides various banking products to their customer in the form of Mobile, Online Banking (Internet Support), Internal Bank (Local Bank) applications. As a technology team from Cognizant we support their business by applying various tools and techniques. For more information please refer [Payment Packages and Cards](https://www.rabobank.nl/particulieren/betalen/#intcamp=pa-homepage-betalen&inttype=tegel-betalen&intsource=particulieren).  I am responsible -   * For creating a Spring Boot Application, adding necessary dependencies as per the requirement. * For migrating code base to Java 11. * For creating Rest API documentation by using SwaggerAPI. * For some Rest service end points, configured OpenAPI 3.0 based standard documentation and extracted the stubs. * Suggested MapStruct library to map api types to internal types and vise versa. Did a PoC on this and presented to architecture team. * For configuring Azure Pipeline for Build process * For configuring Azure Repos by migrating code base from Bitbucket to this. * For configuring Azure Extension (SonarQube) for quality check. * For giving knowledge transfer to peer developers and juniors. * For pair programming and mobbing. * For Pull Request approval and giving comments for the written code. * Suggested lombok and mapstruct tools. * Created sample Poc on Mapstruct lib. * Proposed OpenAPI 3.0 standard for public facing apis and it’s managing. * Proposed Spring Cloud Contracts (Consumer Driven) for SPAs to validate rest contacts and mocks. | | |

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| **RABOBANK, AAA & SS (ACCOUNTS ADMINISTRATION AND ASSOCIATION FOR SALES AND SERVICES)** | | |
| **Client** | **:** | Rabobank, Netherlands |
| **Team Size** | **:** | 8 (4 offshore & 4 onsite) |
| **Project Type** | **:** | Banking Sales and Service |
| **Software Used** | **:** | Confluence, JIRA, Bit Bucket, IntelliJ IDEA, Maven, Java 7, Spring REST, MVC, AOP, Security, Jenkins, Fitnesse and WireMock, Junit4, Mockito, PowerMock |
| **Environment** | **:** | Windows 10 Enterprise, |
| **Duration** | **:** | May 2019 to till date. |
| **Role** | **:** | Lead Developer – S3 Java |
| **Responsibility** | **:** | Offshore Team Lead |
| **Description :**  Rabobank Online banking Sales and Services related application(s). Rabobank provides various banking products to their customer in the form of Mobile, Online Banking (Internet Support), Internal Bank (Local Bank) applications. As a technology team from Cognizant we support their business by applying various tools and techniques. For more information please refer [Payment Packages and Cards](https://www.rabobank.nl/particulieren/betalen/#intcamp=pa-homepage-betalen&inttype=tegel-betalen&intsource=particulieren).   * I am part of the Rabobank, Accounts Administration and Association & Sales and Services team (AAA S&S) * My business area is to develop and provide new banking features to the end customers through online banking as well as a local bank. * Design and build new systems, APIs, and micro services. * Participate in refactoring and improving existing backend Java code. * Work with a cross-functional team. * Participate in code reviews * Experiment with new tools and technologies and improve our existing code base and toolchain. * Teach and guide junior developers. | | |

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| **FORD NEW-GEN APP DEVELOPMENT** | | |
| **Client** | **:** | Ford Bank, Germany |
| **Team Size** | **:** | 3 (1 offshore & 2 onsite) |
| **Project Type** | **:** | Ford’s new generation technology stack |
| **Software Used** | **:** | * CA Agile Central, IntelliJ IDEA, Gradle, Java 8, Git, Jenkins CI/CD, Pivotal Cloud Foundry (PCF), Spring Boot 1.5 (starter: aop, web, data-jpa, devtools, test, actuator, swagger-ui), Spring 4.3.17, Embedded Tomcat 8.5, Lombok, Soap UI, Swagger, Postman, Angular 6, PrimeNG 6, Node, MS SQL Server 2012 |
| **Environment** | **:** | Windows 10 Enterprise, |
| **Duration** | **:** | January 2018 to March 2019. |
| **Role** | **:** | Technical Lead |
| **Responsibility:**   * Learn and understand above said tool in a fast manner. * Initial project setup using Gradle (configuring project configuration and dependencies). * Development environment setup using IDE tools. * Prepare project setup documentation. * Analyzes system requirements, including identifying program interactions and appropriate interfaces between impacted components and sub systems. * Makes recommendations towards the development of new code or to reuse of existing code. * Participates in software system testing and validation procedures, programming and documentation. * Provides technical advice and assists in solving programming problems. * Assists in preparing project plans using project management tools. * Performs other duties and responsibilities as assigned. * Recommend new technologies and methodologies to management for meeting business needs, resolving problems and exploiting opportunities. Remains current with new technologies. * Was to do a proof of concept in Spring Boot and micro services area. * Was to do explore about Angular 6 for UI rendering. Document the PoC understanding and discuss the same with portfolio architect. * Identify the Domain specific REST API URIs. | | |
| **Description :**  **DMT (Data Maintenance Tool)** – rewrite the DMT tool with modern tech stack and cloud platform (more information refer [previous](#DMTDescription) project description).   * With the help of above said tools and other mordern development stack, I have got an opportunity to explorer more on that to rewrite the current legacy system (DMT) to mordern tech stack. | | |

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| **FORD IN-DEALER APPLICATIONS [DMT, DeVICE]** | | |
| **Client** | **:** | Ford Bank, Germany |
| **Team Size** | **:** | 4 [offshore 4, onsite 2] |
| **Project Type** | **:** | Conversion, Enhancement and Maintenance Support. |
| **Software Used** | **:** | Java 6, JSP, Servlet, JSTL, JavaEE5, Eclipse link, JPA2, CDI, JAX-WS Web service (SOAP/REST), HTML, JavaScript, CSS, Log4j, AccuRev, Oracle Weblogic 10.0.3 Server, RAD 9, Websphere 8, Soap UI, HP ALM, Putty, WinSCP, Microsoft SQL Server Management Studio 2008, Microsoft SQL Server 2008, MS Access, Beyond Compare, Notepad++, IBM uBuild |
| **Environment** | **:** | Windows 7 Enterprise, Eclipse Oxygen |
| **Duration** | **:** | August 2015 to December 2017. |
| **Role** | **:** | * Individual Contributor * Team Lead (3 member team) |
| **Responsibility:**   * Have gained expertise in various J2EE technologies in roles of a developer and technical lead. * Coordinate with “Information Technology and In-Dealership” team Ford Credit, Germany to get the task details and assign it to offshore people as part of development / maintenance. Few tasks I use to take full responsibility for few tasks. * Focused on defect fixes, research minor / major enhancements. * Clarifying the business requirement in terms of business as well as technical side. * Review the code; ensure the quality of code to meet the Ford standard. * Unit / integration testing before deliver the code to onsite. * Updating the current/past status on each task in weekly status through WebEx. * Have given Knowledge Transfer to newly joined team members. Motivate them to get in to the project and business. * Have prepared application related supporting document, diagrams and workflow maintain the same in Ford Credit Germany sharepoint. * Learned DMT and Device applications architecture quickly. Because it’s not a usual application. They implemented DMT in FAT client technology through “Dynlet” (Ford owned technology architecture). Understanding the application business and its modules. * Convert each module from flat file (XML version) to database version to save and retrieve the data from database. * Implemented Internationalization concept to apply content for German and English on user interface. * Update the daily progress to onsite (using WebEx sessions) * Preparing detailed technical document for DMT and Device. * Migrated following modules successfully from xml data to SQL server,   + Users and Roles (Administration)   + Vehicles and PriceList (Vehicles)   + Plan Specification (Plans)   + Option Specification (Options)   + Engine Specification (Engine, Engine Power, Engine Size, Engine Type, Fuel type) * Device architecture redesign for new enhancement called "CV Bundled Products". – *For this architecture redesign gone to Germany* and had a discussion with architect and came up with design solutions. | | |
| **Description :**  **DMT (Data Maintenance Tool)** – It’s a java based web application in which business users can create their Vehicle’s and its Price. By using this base information user can easily build their Vehicle and other related parts (Engine, Engine Power, Engine Type, Derivative, Fuel Type and etc.). Originally this application was developed without database version (earlier they were maintaining data in MS-Access database and export data in the XML file and input the same in to web application; on application startup load database process reads this zipped xml file content and create entity objects abased on the xml annotation and JPA annotation). Maintaining business data in MS-Access is not safe day to day. So, Ford Credit business team has decided to convert this application to support DB version. For this Ford have chosen MS SQL to store and retrieve their data.  **DeVICE (Dealer Vehicle Calculation Engine)** – It is a Java/J2EE JAX-WS SOAP based XML web service. It contains two different services. 1. Price List service 2. Calculation service. | | |

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| **ALFA IN-HOUSE APPLICATIONS [MYALFA, CTS, SUBROGATION]** | | |
| **Client** | **:** | Alfa Mutual Insurance Company, Alabama, USA |
| **Team Size** | **:** | 4 [offshore 4, onsite 1] |
| **Project Type** | **:** | Enhancement and Maintenance Support. |
| **Software Used** | **:** | Java, JSP, Servlet, JDBC, EJB2.1, JXL, PDF Lib, Webservice, HTML, JavaScript, JQuery, Star Team, Oracle Weblogic 10.0.3 Server, IBM DB2 with WinSQL, Soap UI. |
| **Environment** | **:** | Windows 7 Enterprise, Oracle Workshop |
| **Duration** | **:** | January 2014 to August 2015. |
| **Role** | **:** | Team Lead |
| **Responsibility:**   * Have gained expertise in various J2EE technologies in roles of a developer and technical lead. * Coordinate with onsite to get the task details and assign it to offshore people as part of sprint development. * Focused on defect fixes, research minor / major enhancements. * Clarifying the business requirement in terms of business as well as technical side. * Motivate the team members to update their skills in technical side. * Suggesting alternate technical approach for legacy open source tools. * Review the code; ensure the quality of code to meet the Alfa standard. * Unit / integration testing before deliver the code to onsite. * Updating the current/past status on each task in weekly status call. * Have prepared “Retrospective” document after each sprint. * Have prepared “Causal Analysis” document for the critical issues. * Key participant for the internal audit for Java team as a presenter. * Have given KT to newly joined team members. * Have prepared application related supporting document and maintain it in cloud (Cognizant C2.0) * Have got received appreciation mails from Client for various implementation. * Knowledge on Agile tool called JIRA for defect tracing. * Handled more than three projects at the same time. | | |
| **Description:**  **MYALFA** - It is an intranet application used by Alfa agents, CSR & employees. It is mainly used for policy maintenace. It deals with different line of business like (Auto, Home, Fire & etc.) and allows user to search the policy informations by using various criteria (Policy #, Alfa code, Name, SSN # and etc).  **Claims Tracking System (CTS)** - It is an intranet application used by Alfa agents, CSR & employees to search for the claims and see the status and progress of claims. Using this application user can create a new claims and updating claim details.  Subrogation – It is an intranet application used by Alfa agents, CSR & employees. Using this, creating a claims for Auto or Property and user can add a payment against created claims. This application have various reporting features to get the accracy of the claims data.  **Home Owner** – application is a web application developed for three States namely, Alabama, Mississippi and Georgia. This is an internal application used by Alfa agent to generate Home Insurance policy for Alfa customer against any accidents in the house or on the property | | |

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| **ALFA INTERNET STRATEGY – ONLINE QUOTE** | | |
| **Client** | **:** | Alfa Mutual Insurance Company, Alabama, USA |
| **Team Size** | **:** | 21 [offshore 15, onsite 6] |
| **Software Used** | **:** | Java, JSP, Servlet, EJB3.0, Hibernate (w) JPA1.0, JAX-WS, JXPATH, Star Team, Oracle Weblogic 10 [workshop & Server], UI Framework developed by CTS, Enterprise Architect, Junit, IBM DB2 with WinSQL, StAX, Soap UI, HP Quality Center. |
| **Environment** | **:** | Windows 7 Enterprise, Oracle Workshop |
| **Duration** | **:** | February 2012 to December 2013. |
| **Role** | **:** | Java Web Services Module Developer for Business Rule Engine module and Address Standardization |
| **Responsibility:**   * It was a full development project. I got knowledge from E2E [All Phases]. * Developed UML diagrams [class/entity/sequence] with corresponding documentation. * Developed Business Rules component as a webservice: analyzing the customer’s business requirement document and convert it into programmatic way to give solutions [like presentation, error displays, processing their quote]. * Developed tables for Business Rules component; was maintaining the changes in it. * Creating web service’s using annotation. * Creating XSD’s and converting that XSD into JAXB classes, maintaining and updating XSD files according to business needs. * Suggested JXPATH open source component to achieve JAXB / POJO navigation to get the value from beans. * Developed an Email component as Webservice component: for this Online Quote to transform user quote XML using XSLT and bind the HTML and send an email to the given emails. * Peer reviewed all the code developed by others and provided suggestions. * Prepared design and technical document for maintenance. * Prepared release notes at the end of each release. | | |
| **Description:**  **Alfa Online Auto Quote – Online Quote** is an internet-based application that will provide an Online Quote of Auto Insurance to its prospective customers/agents. Customer is required to furnish some basic details based on which Online Quote fetches all his Vehicle/Driver details through a third-party system and upon adding required Vehicles/Drivers to the quote he/she is provided with a best possible Quote (Premium details and other information). The Customer thereby can choose either to Bind /Buy this Policy. This entire process is described as Quote Journey. This application will interact with various sub-systems namely [Melissa](http://www.melissadata.com/), [LexisNexis](http://www.lexisnexis.com/), [POLK](https://www.polk.com/), Right Now and Exceed, [Address Standardization](https://www.usps.com/business/web-tools-apis/general-api-developer-guide.htm).  The Project uses JSP/Servlet model for frontend, a dynamic UI framework to build dynamic screens, with the help of XML, CSS, jQuery etc. Backend is IBM DB2. This application interacts with many other third-party services as well as client’s Policy Administration System. | | |

**PERSONAL DETAILS**

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| **Name as in Passport** | **:** | Nithiyanandam Karthikeyan |
| **Passport #** | **:** | P7531075 |
| **Date of Birth** | **:** | 22nd Nov 1984 |
| **Gender** | **:** | Male |
| **Nationality** | **:** | Indian |
| **Marital Status** | **:** | Married |
| **Languages known** | **:** | English and Tamil. |
| **Hobbies** | **:** | Watching TV, YouTube, Playing cricket. |

**DECLARATION**

I hereby confirm that the information provided above is true to the best of my knowledge. I request you to consider me as a proficient candidate, and if an opportunity is given to me, I will prove my worth.

Sincerely

Date: 5-May-20

Place: Chennai

(Karthikeyan. N)