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| GOKUL KRISHNA KRISHNAN  Email id: [gk0419869@gmail.com](mailto:gk0419869@gmail.com)  Contact number: 661-247-1236 SummaryOver 5 Years of experience in Java, J2EE with experience in software development lifecycle (Requirement gathering, Designing, Developing and Testing) and working knowledge in various fields such as Software Engineering, Data Science and Distributed Ledger Technology.  * Experience in developing web applications using **HTML5**, **CSS3**, **JavaScript**, **jQuery**, **AJAX**, and **Angular 2** with responsive web applications using **Bootstrap**. * Strong experience working with **Spring** (**Spring MVC, Spring Boot, Spring AOP, Spring JDBC**). * Performed Data Operations using **Spring ORM** wiring with **Hibernate** and Implemented Hibernate Template and criteria API for Querying database. * Extensively worked on **J2EE** technologies such as **Servlet, JSP** and **JDBC**. * Hands on experience with RDBMS such as **MYSQL**, **MS SQL Server** and **Oracle SQL**. * Experience in **XML** technologies such as **XML, XML Schema, XMI, XSLT** and also **JSON**. * Expertise in developing **SOAP** and **RestFul** Web Services. * **Experience in** automating build platform by implementing continuous integration and continuous deployment using **GITLAB**. * Skillful in handling unit testing using **Junit** and Front-End Testingusing **Jasmine** and **Karma**. * Experience developing with **AWS S3** and **EC2**. * Strong understanding and experience working with **Machine Learning Algorithms** and **Data Mining** techniques. * **Strong knowledge in developing Blockchain applications using Hyperledger Fabric.** * In depth knowledge in **Object-Oriented concepts** and **Design Patterns**. * Proficient at building **micro services** and connecting to **API**. * Strong experience working in **Agile** software development along with **Test-Driven Development** (TDD) methodology. * Experienced in version control tools such as **GIT, SVN** and a ticket tracking platform **JIRA**. * Strong experience in using build automation tool **Maven** andcontinuous integration tool **Jenkins**. * Participated in requirements gathering and design meetings with clients and interacted with technical and business audiences. * Ability to work independently and to perform research and experimentation to deliver complete, practical solutions without constant guidance and supervision. * Ability to adapt to shifting priorities in a fast-paced, dynamic business environment.  Technical Skills |  |

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| Languages | Java 1.6, 1.8, J2EE, XML, UML 2.0, SQL, PL/SQL |
| Technologies | Core Java, Advanced Java, Servlet, JSP, JDBC, JSTL, XML, ORM(Hibernate) |
| Methodologies/Design Pattern | OOAD, OOP, UML, MVC, DAO, Factory Pattern, Singleton |
| Frameworks | Spring MVC, Spring AOP, DAO in Spring 4.x Frameworks, JUnit, AJAX, Hibernate(ORM) |
| Web/Application Servers | Apache Tomcat 7.0 & 8.0, JBOSS 7.0, Glassfish 4.0 |
| Web Development | HTML5, CSS3, JavaScript, jQuery, AJAX Bootstrap, Angular2, JSP, XML, JSON |
| Mark Up Languages | HTML5, XML, XMI |
| Database | Oracle 10g, MySQL, MS-SQL 2012 |
| Web Services | SOAP, RESTful, AWS S3, EC2 |
| IDE | Eclipse, Visual Studio Code, Intelij, Webstorm |
| Tools | Maven, PostMan, SOAP UI, SQL Developer, JIRA, |
| Build System | Maven, Jenkins |
| Version Control | GIT, SVN |
| Machine Learning  Algorithms | Linear Regression, Logistic Regression, Decision Trees, Neural Network, Support Vector Machine, ANOVA, Time Series Analysis, K-means clustering, Principal Component Analysis |
| Distributed Ledger  Technology | Hyperledger Fabric 0.6, 1.0, Hyperledger Fabric Composer |

# Work Experience

**Served By Stadium, New York City, New York**

***Full Stack Developer (Spring/Machine Learning/AWS)***

Dec’16 – Present

## The Company provides Food delivery service collaborating with NYC's top restaurants and delivering different food from different restaurants all in one order. Project was to develop an analytics dashboard by identifying and solving business challenge utilizing large data. The dashboard included sales analysis, sales forecast, customer analysis and product analysis. Used various types of charts, pivot tables, KPI widgets and tabular view components to build the dashboards.

* Developed the application using **Spring MVC**, **Spring IOC**, **Dependency Injection** **Spring Annotations**, **Spring AOP** **and Hibernate**.
* Followed **Spring MVC** pattern and used View Resolver to map web page.
* Configured **Dispatcher Servlet** and View Resolver to intercept incoming requests.
* Managed **Spring MVC** flow and invoke view components with the help of Dispatcher Servlet.
* Used **Spring AOP** terminologies to handle transaction management.
* Involved in writing **Spring Container** and **Controller** classes.
* Used **Hibernate** to extract and **HQL** to query the data from **MYSQL** database.
* Imported third party data feeds using **RestFul** web services and used **AWS Java API** to interact with AWS Feature such **S3** to store and **EC2** to create instance.
* Used **Machine Learning Algorithms** and **Data Mining** techniques for customer analytics.
* Used **Natural Language Processing** package by using **Stanford CoreNLP**.
* Developed a forecast model by implementing **Long Short Term Memory** which is a recurrent neural network to predict the sales using **Tensorflow**.
* All the analysis was done using Java **(Weka, Java-ML)** and **Tensorflow**.
* Identified metrics and KPI's to evaluate product performance.
* Increased the Customer Retention rate by 12% by optimizing and automating the product assortment by analyzing the historical sales data.
* Created customer profile based on the derived cluster from the k-means along with the customer churn which gave an in-depth knowledge of the customer base.
* Used **D3.js** for Data Visualization to create Heat Maps, cohort analysis, etc.

**Environment:** JDK 1.8, Spring 4.x, Hibernate 5.0, HTML5, Maven 3.5, CSS3, JavaScript, D3.js, GIT, Eclipse, Windows 10, Weka, Java-ML,Tensorflow, MYSQL, RestFul, AWS S3, AWS EC2

**Shoptaki, New York City, New York**

***Software Developer (Angular 2/ Restful Web Services)***

Dec ’15 – Nov ‘16

## The Shoptaki provides a safe and global ecosystem for small and medium enterprise across various industries especially in finance for fraud detection, AML and many more. Developed a Demo version of Payment Trust System for the Blockchain Technology (Hyperledger Fabric). This demo system help companies to view an manage the transactions with other companies. User will be able to input payment reports of larger businesses and generate a score that tracks all transactions on the blockchain.

* Worked closely with the Product and Engineering teams to create Proof of Concepts and use cases, articulate the technology requirements, goals and milestones of the team.
* Built subject matter expertise in various areas and stayed up to date on technological developments
* Used **Hyperledger Fabric v0.6** to develop the chain code.
* Used **Bootstrap** and **Angular2** to develop the front end of the application.
* Created **Single Page Application** (SPA) with loading multiple views using route services and adding more user experience to make it more dynamic.
* Validated forms using **Angular2** and regular expressions by providing client side validation and server validation.
* Created **Typescript** reusable components and services to consume **REST API's** using Component based architecture provided by **Angular2**.
* Developed rich GUIs and involved in performance tuning website by using **AJAX** frameworks such as **jQuery**, **JSON**.
* Create, edit and maintained sites implementing Responsive Design & Themes using front end development frameworks such as **Bootstrap**.
* Used **RestFul Web Services** to fetch the data from the chaincode and feed them in the application.
* Implemented **Smart contract** to enable theautomatictransfer of payments among the companies.
* Deployed PBFT as a stand-alone **consensus** service.
* Used **Docker** to deploy the fabric and to run the network.

**Environment:** Angular2, TypeScript, RestFul, Bootstrap, Docker, Visual Studio Code, Hyperledger Fabric v0.6, HTML5, CSS3, Ajax, Bootstrap and JSON

**CLS Group, New York City, New York**

**Full Stack Java Developer (Spring/Hibernate)**  
Jul 14' – Nov 15'

The CLS Group mainly provides Foreign exchange settlement services, Risk Mitigation and various other FX services. Part of the development team which developed an Automated Forex Trading System. I was responsible for the design, development and support of new and existing software components of the product. The Trading system is designed based on defined set of technical rules which created a signal to generate an actual buy or sell order that is executed.

* Developed the application using **Spring MVC and Hibernate**.
* Responsible for creating Model/Value Objects in MVC Design Pattern.
* Configured Dispatcher Servlets which included View Resolver and Session Factory and Property File.
* Developed code for obtaining bean references in spring framework using **Dependency Injection** (DI) or **Inversion of Control** (IOC) using annotations.
* Used **Hibernate Criteria API** to query the **Oracle 10g** database and perform other **CRUD** operations.
* Created **POJOs** for **Data Model** and made individual HBM records to delineate Java Objects with **Oracle 10g**.
* Implemented **Threads**, **Multithreading**, **Synchronization**, **Collection API** and **Design Patterns**
* Developed front-end using **JavaScript, HTML5**, **jQuery, AJAX** and **CSS**.
* Extracted the market data (Bloomberg, Reuters) and load them to the application in real time.
* Used **Tomcat** server for application deployment.
* Used **Jenkins** continuous integration development to develop the application.

**Environment:** JDK 1.6, J2EE, Tomcat, Spring 4.x, Hibernate 4.3, JavaScript, jQuery, Ajax, HTML, Maven 3.1, CSS3, GIT, Oracle 10g, Eclipse

**JC Chapman, Bangalore, India**

**Junior Java Specialist (J2EE/J2SE)**  
Jan '13 - Jun '14

The company provides Data Solutions and Regulatory Technology business focused solely on the Financial Services sector and specializing in Finance, Risk and Regulatory data. I was part of the core application development team. We developed a regulatory technology solution which streamlines regulatory and standards based reporting processes by using **Firm Data Submission Framework** (FDSF), which is used by UK bank regulator to re-engineer data submission from UK banks. The framework is being used by the regulator to manage and analyze seven firms submitting simultaneously and it has been expanded to cover thirteen international banks for market risk.

* Imported relevant data from various sources into a specified data format by setting up data models to structure the data capture using **Eclipse Modelling Framework** and **ECORE** to structure the data capture.
* Used **Ecore Tools** component which provides a complete environment to create, edit and maintain **Ecore models**.
* Used **Eclipse** IDE for writing **Java** programs to import relevant data from various types of files such as **Excel, Word** and transform theminto a specified data format such as **XML**, **JSON.**
* Used **ETL** onfinancial data to provide actionable information and ensured fields were manipulated also the new schema were created to meet business demands.
* Worked as a team lead and gave training to team members on **Data Modeling** to created Meta models using Unified **Modeling Language**.
* Used data syntaxes, schemas and transformations such us **XML**, **XMI**, **JSON**, **XSD**, **XSLT**, etc.
* Used **Agile** for software development process and implemented Factory Design Pattern.
* Used **GIT** for version control and **Maven** Project Management.

**Environment:** JDK 1.6, Maven 3.0, GIT, Eclipse, Ecore, EMF, UML 2.0,XML, XMI, JSON, XSD, XSLT

# Education

## Master Degree | Data Science

Minor: Business Analytics

Saint Peters University, Jersey City, NJ

# Accomplishments

**Winner of** **Consensus 2017 Building Blocks Hackathon** - Created a solution called Smart City Fabric: The Urban Block Operating System which enables various examples of peer-to-peer networks in a smart city.

**Winner of** **IBM Blockchain Hackathon NYC Winner** - Developed an application called Pay on Time where all the parties in the freelance ecosystem record the disposition of their payments on the blockchain, and gradually build up their reputation for paying on time.