ACHUTH KAMATH M

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**SUMMARY**

* Experienced Software Engineer with a demonstrated history of working in the higher IT industry for about **7 years** with strong experience in Analysis, Design, Development, Testing, Review and Deployment
* Working Knowledge and experience in Implementation of Multi-Tier distributed applications in technologies like Core Java, J2EE (JSP, Servlets), Springs, Hibernate, JDBC, XML, JSON, Web Services and Design Patterns
* Proficient in all phases of **SDLC** and highly competent in Gathering user requirements and converting them into software requirement specifications using **UML**, **Design Patterns**, Object Oriented Methodologies (**OOP**)
* Experience working with Agile/Scrum and waterfall development methodologies
* Expertise in **Core** Java with strong understanding and working knowledge in Object Oriented Concepts like **Collections, Multithreading, Data Structures, Algorithms, Exception Handling and Polymorphism**
* Hands on expertise in designing, developing and deploying applications using J2EE technologies including JSP, Servlets, EJB, JSTL, Struts, Spring, AJAX, JDBC, JNDI, Java Beans, Hibernate, RAD, Web Services and RDBMS
* Good Experience in implementing several object-oriented design patterns such as FAÇADE, SINGLETON, FACTORY, Spring Framework that uses features of IOC, Spring MVC, Spring Boot, Spring JDBC, Spring Batch, Spring Security and AOP features.
* Developed code in Java, J2EE, Webwork and Hibernate using XP Practices Pair Programming, TDD, Continuous Integration .
* Expertise in coding optimized SQL queries on databases like Oracle and MySQL
* Hands-on experience in designing and implementing high performance distributed cache memory management systems like HazelCast and enCache.
* Strong front-end GUI wire-framing/prototyping skills using scripting languages like JSP, **HTML5**, XHTML, **jQuery**, **JavaScript**, **AJAX**, DOM and Cascading Style Sheets (**CSS**)
* Hands on experience in **TypeScript**, Angular JS, Vue JS, Node JS and UNIX Shell Scripting
* IDEs for development – IntelliJ IDEA, and Eclipse
* Good Working Knowledge of Ant/Maven for project build/test/deployment, Log4j for logging, JACOCO for code coverage and Junit4 for unit and integration testing.
* Adopted agile methodology with pair programming technique and addressed issues during system testing.
* Experience on different OS like UNIX, **Linux**, and **Windows** operating systems
* Excellent skills in programming using wide variety of languages and ability to adapt new latest technologies & work in Multi-platform environment
* Has the motivation to take independent responsibility and be a productive team member, accompanying a strong programming and analytical background
* Good verbal and analytical skills

**WORK EXPERIENCE**

**Harvest Trading Group, Norwell, MA**  Sep 2017 - Present

**Software Development Engineer**

* Involved in SDLC Requirements gathering, Analysis, Design, Development and Testing of application using AGILE methodology
* Applying experience with across multiple architectures and collaborating with business colleagues to bridge technology requirements with business needs. Interfacing with business product leaders to gather requirements
* Implemented Multithreading in application using Sprihazeng threading and Async features to consume data from multiple provides simultaneously to improve application performance.
* Developed Web Service which performs payment processing, credit evaluation, authorize merchants and generate summary reports.
* Configured, tuned and maintained MySQL Server database servers.
* Advised core team to develop new marketing strategies to improve the sales and business performances with reduced cost and using existing services
* Generate UI mockups from paper-and-pencil concepts to high-fidelity prototypes that convey the interaction model using HTML5, JavaScript and CSS
* Involved in the configuration of Struts and Hibernate into a spring application and used Spring DAO support to build Hibernate DAO classes.
* Worked on Oauth2 for authentication payment gateway service.
* Responsibilities include estimation and development of new modules using the AGILE process and pair programming using the divide and conquer method of breaking down a chunk of requirements into piecemeal stories and breaking each major release into iteration.
* Developed JSP pages for presentation layer (UI) using Struts with client-side validations using Struts Validator framework/ JavaScript
* Involved in developing the Controller framework using Annotated REST based spring controller.
* Development of HazelCast low latency volume curve cache, used to calculate the intraday cash balance
* Administrating Inventory management and data analysis on the product through **MWS** and Amazon seller account
* Developing, integrating, testing & delivery of web applications following complete software development life cycle
* Support of products liquidity analytics and collaborating with cross functional teams
* Analyzing existing software implementation to identify areas of improvement and adding new features
* Maintaining IBM server’s EXTOl/VAI applications for **B2B EDI** and identifying error or validating logs on a daily basis
* Designed and Implemented Unit testing using JUNIT Framework
* Successfully executed all the test cases and fixed issues identified during the test cycles

**Environment:**

Core Java, Java, J2EE, Multithreading, Hibernate, Hazelcast, Struts, React JS, JavaScript, AJAX, CSS, HTML5, JSP, jQuery, JDBC, SpringMVC, Web Services (SOAP/REST), SQL, Servlets, ANT/Maven, Shell Script, CSV, JSON.

**Tamago-DB, Boston, MA**  Sep 2016 - Aug 2017

**Software Engineer**

* Developed and optimized existing Tamago-DB application and improved its performance up to 30% using front end optimization tools and plugins
* Managing/Troubleshooting MySQL 5.0.22 and 5.1.24 in production and developer environments on both Linux (5.0, 5.1) and Mac OS X.
* Designed and developed the application using Agile methodology and followed TDD, Scrum, pair programming.
* Designed API platform to provide GMap API services (**REST**), integrated with **vue.js** and **Symfony** bundle
* Created **SQL** queries, functions for database layer by studying the required business objects and validating them with Stored Procedures using **Doctrine ORM**. Followed **Agile** Methodology
* Collaborated with a diverse group in a fast-paced, team-oriented and rapidly changing work environment

**MassHousing, Boston, MA** Jan 2015 - Aug 2016

**Machine Learning engineer**

* Achieved 75% accuracy on test data which predicted the financial letter grade of future for MassHousing using Supervised learning Algorithm
* Implemented stochastic gradient descent (**SGD**) approach with a **3-layered Feed Forward** **neural network** using python libraries
* Used statistical analysis to identify insights and conclusions from complex data
* Used data in form of excel and normalized it using **Minmax normalization**

**Bolas Intelli Solutions (Pvt) LTD, India** Aug 2011 – Dec 2015

**Java/J2EE Engineer**

* Responsible for overall design & analysis of components and integration with **JAVA**
* Involved in the complete Software Development Life Cycle including Requirement Analysis, Design, Implementation, Testing and Maintenance
* Involved in system design and development in core java using Collections, multi-threading and exception handling.
* Used multi-threading architecture to improve speed of application and to design thread safe environments
* Deliver new and complex high quality and quick solutions to clients in response to varying business requirements
* Designed and implemented customized exception handling to handle the exceptions in the application
* Used Struts Validation Framework for form input validation augmented by struts validator XML config files
* Involved in developing code for obtaining bean references in spring framework using Dependency Injection (DI) or Inversion of Control (IOC) using annotations
* Used Spring validation and wrote validation rules
* Primarily focused on the spring components such as Dispatcher Servlets, Controllers, Model and View Objects
* Designed, developed Content Management Systems (**CMS)** using recursive algorithms to dynamically change the data and UX of the applications
* Developed data-driven responsive applications that interact and provide information to various users
* Designed wireframes and used HTML and CSS to implement 100%-pixel perfect UI designs
* Agile Methodologies, Organizational and multitasking skills helped rapid deployment of projects which consequently improved customer satisfaction and increased projected growth rate
* Designing the front end using JSP, jQuery, CSS and HTML5 as per the requirements that are provided
* Used Hibernate, Object/Relational-Mapping (**ORM**) solution, technique of mapping data representation from MVC model to Oracle Relational data model with a SQL-based schema
* Developed Hibernate DAO classes and with the spring frame work manager classes retrieve and save the data from the database
* Designed and developed components for order entry using EJB with a Java Swing client application
* Implemented Web Services to send order details to downstream systems using Jax-Rpc, SOAP
* Implemented log4j for logging purposes and debug the application
* Prepared Junit test cases and executed the test cases using Junit in eclipse

**Environment:**

Core Java, J2EE, Hibernate, Struts, Spring, Servlets, Multithreading, Web Services, JavaScript, CSS, JQuery, EJB, JSON, HTML5, Angular JS, Eclipse IDE, Oracle, PL/SQL, XML, Windows

**SKILLS**

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| **Programming Languages/OS** | : C, C++, Java, Python, PHP, SQL, PL/SQL, Windows, Linux |
| **Web Technologies** | : HTML5, CSS3, JavaScript, AJAX, JSP, Bootstrap, jQuery, XML, REST, Vue.js, JSON, WordPress, SpringMVC, SpringREST, Node.js, Angular, MWS, OAuth |
| **Databases** | : MySQL, SQL Server, Oracle 10/11g, HSQLDB, MongoDB |
| **Tools** | : Eclipse, Git, Visual Basic, IntelliJ, JUnit, JACOCO, Find Bug, ANT, SourceTree |

**EDUCATION**

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| **Visvesvaraya Technological University, India**  Bachelor’s in Computer Science & Engineering | May - 2011 |

**PROJECTS**

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| * **Udacity Flying cars Visualization:** Developed and simulated flying drone which calculates shortest path from source to destination in each data of geo locations using **supervised learning** model | Aug 2018 |
| * **APIiFormBuilder Survey Form:** Built **PHP** class that authenticates with iFormbuilder API OAuth2.0 layer and uses the access token in the response to access API endpoints and process the data | Jun 2017 |
| * **vCard Bundle:** Fully functional Symfony plugin to generate online visiting card for the convenience of the users to store or display their contact details. A library for Symfony PHP | Jan 2017 |
| * **Command Line File System:** Designed, Developed, tested robust command line file system operations using Façade design pattern using **Java** | Feb 2017 |
| * **Murach’s** **music store**: Designed and developed online music application using **JSP**, **JPA**, **POJO**, and **servlets** with MVC structure. Integrated database using Oracle dB, MySQL dB and HSQLDB | Nov 2016 |
| * **3D Ray Tracer:** Ray trace of complex 3D objects using Phong’s illumination model with OpenGL Libraries and C++. Helpful to cast shadow and reflections onto 3 Dimensional objects | Aug 2016 |
| * **Audio Steganography:** Network project on “**Audio Steganography** using Least Significant Bit to encrypt text in a wave file” using public key algorithm and **MATLAB** software | Mar 2013 |