# Maheep Mahat

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## SUMMARY:

- Professional **Java/J2EE Software Developer with 5 plus years of experience** in **Analysis**, **Design**, **Development**, **Testing,** and **Implementation** of **applications** on **Java/J2EE** technologies.
- Experience in all phases of the **Software Development Life Cycle (SDLC)**, which includes Integration, Implementation, Interaction, Business Analysis/Modeling, Documentation, and Testing of all software applications.
- Expertise in developing enterprise applications with various open-source frameworks like **Java/J2EE**, **JSP**, **JSTL**, **Servlets**, **Spring Boot**, **Spring MVC**, **JPA**, **JDBC** and **Hibernate**
- Extensive knowledge in **Agile Methodologies** and **Waterfall** model.
- Expertise in programming with **Hibernate Framework**, **Hibernate Configuration**, **Object Relation Mapping (ORM)**
- Expertise in **RDBMS**, **JDBC**, **Oracle** and **SQL** Server including **SQL/PLSQL**, **Stored Procedures** and **TOAD**.
- Experience using build tools like **Maven** and **CICD** tools like **Jenkins**.
- Experienced in designing, developing, and deploying **J2EE** applications on **WebSphere**, **WebLogic**, **Apache Tomcat** and **JBoss Servers**.
- Solved software design issues by applying design patterns including Singleton Pattern, Business Delegator Pattern, Controller Pattern, MVC Pattern, Factory Pattern, Abstract Factory Pattern, DAO Pattern and Template Pattern
- Created Single Page Applications by utilizing **Angular versions 4,6,7,10**.
- Strong experience with **MongoDB** development (reports, schema design, map reduce functions) and migrations from **SQL** relational databases to **NoSQL** databases like **MongoDB**, **Cassandra** and **Couch DB**.
- Diverse experience utilizing tools in **Microservices** architecture applications using **Spring Boot**, **Spring Cloud**, **Pivotal Cloud Foundry**, **AWS**, **Rabbit MQ**, **Kafka**, **Cassandra**, **My SQL**, **Restful Web Services**.
- Hands-on experience in deploying web and **J2EE** enterprise applications on **WebLogic**, **WebSphere**, **Tomcat**, **Enterprise Service Bus (ESB)** and **JBoss** server.
- Worked on **AWS**, High Availability Practices and deploying backup/restore infrastructure.
- Experience in **Spring framework** extensively used **Spring DI**, **Spring Batch**, **Spring AOP**, **Spring JDBC templates**, Multi-Threading and in working with **SOAP** &**RESTful Web Services**.
- Experience in creating various Docker images from the Docker containers and published these images in the Docker hub repository.
- Developed **CI/CD** system with **Jenkins** on **Kubernetes** environment, utilized **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to Build, Test and Deploy.
- Strong development experience creating rich frontend **UI** in **AJAX**, **JSF**, **JavaScript** technologies using **JavaScript** libraries like **jQuery**, **Angular**, **NodeJS**.
- Deployed **Spring Boot** based **Microservices** and **Amazon EC2** container using **AWS** admin console.
- Experience in software versioning and revision control systems such as **Git**, **SVN**, and **Clear Case**.

## TECHNOLOGIES:

| Languages | Java 11/8.0/7.0/6.0/5.0, J2EE, SQL, Python, PL/SQL, UML, C, C++ |
|---|---|
| **Enterprise Java** | Servlets, JSTL, Design Patterns, JSF, JMS, JSP, JNDI, JDBC, Log4J API, Java security |
| **Mark-up/XML Technologies** | HTML, XHTML, JavaScript, CSS, XML, XSD, XSL/XSLT, AJAX, NodeJS, ReactJS, jQuery, JSON, Bootstrap, Angular6/7, AngularJS |

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|---|---|
| **Tools & Framework** | Spring4/5, Spring MVC, Spring Boot, Spring batch, Spring Security, Spring AOP, Struts, JSF, Log4J, Jasper reports |
| **Web Services** | SOAP, REST, REST API, WSDL |
| **Web/App Servers** | Web Sphere, WebLogic, Apache Tomcat, Apache Kafka, JBoss, Jetty Server |
| **Database** | Oracle, Mongo DB, No SQL, MySQL server |
| **Development Tools** | Eclipse, My Eclipse, Spring Tool Suite STS |
| **AWS** | EC2, RDS, S3, ELB, EBS, Lambdas |
| **Version Control Tools** | SourceTree, Git, Bit bucket, Tortoise SVN |
| **Built Tools** | JUnit, SoapUI, ANT, MAVEN, Gradle, Putty, CI/CD, PCF, Rational Clear Quest, Azure, Mockito, Fitness, Kubernetes, Load UI, Groovy Spock, Docker, Jenkins |
| **Design Patterns** | MVC, Front Controller, Singleton, Business Delegate and DAO patterns |

**EDUCATION:**
**Bachelor's in technology** in Computer Science, Vishwakarma Institute of Technology, Pune
**Master's in computer science**, Virginia Tech University, Blacksburg, VA

**EXPERIENCE:**
**Center of Geospatial and Information Technology at Virginia
Tech,  Blacksburg, VA**                                                                                      **Jan 2022 – Present**
**Full Stack Java Developer**

**Responsibilities:**
- Developed a high-efficiency search and indexing using Elasticsearch for a permission sensitive information dashboard,reducing data retrieval times by **4 seconds** through optimizing PostgreSQL queries & Spring Boot's JPA.
- Increased data ingestion speed for Urban Affairs and Planning department's bicycle experiment, reducing from **6hours to 4 hours 45 minutes** using pruning, partitioning, and Tuplex, improving workflow efficiency.
- Designed a geospatial information visualization platform using **Django** and React by fetching the inrix traffic dataand generating layers using geoserver on top of Openlayers map and displaying locations using Fabric IDs.
- Developed **Microservices** with **Spring Eureka** to retrieve **API** routes for the entire cluster.
- Worked on **RESTful** web services, exclusively consuming **REST API** with Asynchronous behavior.
- Created a speeding and accident location information visualization app using geoserver generated layers for VirginiaState Police utilizing Django, React.js, and Leaflet, resulting in faster information lookup time by **15 seconds**.
- Created the **Docker** containers and **Docker** consoles for managing the application life cycle.
- Experienced in developing test cases for **Unit Testing** using **JUnit**, Integration Testing and System Testing.

- Designed and developed Training and Development System for HR team using **Core Java**, **JSP**, **Servlets**, **Tomcat** and **Oracle** database.
- Worked on migrating windows server to **RedHat OpenShift** container.
- Used Dynatrace to monitor the application's health, requests, failures and analyze the app and more efficiently tracking the errors.
- Monitored the error logs using **Log4J** and used **JIRA** to manage the issues/project workflow.
- Used **Amazon Cloud** Watch to monitor **AWS** services and **Amazon Cloud** Watch logs to monitor application.
- Developed custom **CQ** components on top of **JCR** (**Java Content Repository**) and **Apache Sling** (A **REST** based web development framework on top of **JCR**), **CRX** (Day's commercial **JCR** Implementation), and **CQ5** (Day's latest suite of **WCM**, **DAM**, and Social Collaboration applications).
- Developed **AEM** 6.2 custom workflow templates and modules for **WCM** lifecycle management.
- Selecting the appropriate **AWS** service based on compute, data, or security requirements.
- Utilized **AWS** services such as **EC2**, **S3**, **RDS**, **Lambda**, and others to build and maintain cloud-based solutions.
- Performed unit test using **Jasmine** and **Karma**.
- Created proof-of-concept using responsive web design, **Node JS**. **HTML5** and **CSS3**.
- Improved the UI using **Angular 11**, **Angular Material**, **Bootstrap**, **Priming**
- Created Reusable components, Custom Modules, Custom Directives, Pipes, Services in **Angular 11**.
- Used **OOPs** concept and other **core Java** concepts like multithreading/concurrency, inheritance etc. in development.
- Contributed to the **DevOps** to automate the build and deployment process using **Jenkins**, **shell scripting**, **AWS Lambda**, Cloud Formation Template.
- Designed and developed restful API and services using best practices to interact within the microservices and with the front end.
- Developed static web pages, landing pages, category landing pages using content management system, **AEM 6.2**.
- Used **JIRA** platform to create, manage, monitor and complete stories while working on Agile software.
- Extensive use of **AEM** tag libraries and custom tag libraries in components.
- Involved in the development of user interface applications and professional web applications using **HTML5**, **CSS3**, **JavaScript, jQuery, Ajax, JSON, Xml**, **Node JS**, **Bootstrap** and **Angular2**.
- Used **Apache Maven** build tool to automate the build process and **Jenkins CI** for continuous integration.

**Environment**:
**Agile, Java/J2EE, Angular 10, Splunk, HTML5, JIRA, XML, CSS3, JavaScript, XHTML, AJAX, Spring MVC, Spring Boot, Hibernate, Oracle, Spark, Kafka, MongoDB, Bamboo, JMS, REST Web Services, AWS, Microservices, Log4j, Servlets, JUnit, ANT, GIT and Windows**.

**Mediaocean Inc., Remote**                                                                 **July 2020 – Aug 2021**
**Full Stack Software Engineer**

**Responsibilities:**
- Implemented hot reloading functionality using Webpack and React Hot Loader in the development environment,reducing the iteration time by **20%** and accelerating the feature development cycle by allowing instant feedback.
- Designed and improved APIs on Mediaocean's Prisma platform using Spring Boot, achieving a **15%** improvement incustomer data fetching and rendering speeds by integrating Spring Data JPA for efficient data management.
- Implemented a 2-step authentication via Email or Text OTP on Mediaocean's Prisma and Radia platform, slashingthe document verification process by **25%**, leading to expedited document approval time for clients.
- Created logging functionality across a distributed microservice architecture using the Elasticsearch, Logstash and Kibana stack and monitoring ability using Prometheus resulting is **30% faster** issue diagnosis time.

- Spearheaded Server and UI development for **Prisma** and **Radia** using **Java 11, Spring Boot**, and **React.js**, boostingclient engagement and satisfaction and regularly conducting Root Cause Analysis to enhance product reliability.
- Analyzed and designed requirements provided by business users.
- Developed user interfaces using **HTML5, CSS3**, **AngularJS, JavaScript, JQuery** and **Ajax** with **JSON**.
- Experience with the **Adobe AEM6, CQ5.5, CQ5.3 product suite, including, DAM, Search & Promote, Test & Target, A/B Testing**. **LDAP** Configuration and Image Renditions.
- Implemented **Java/J2EE** technologies including specialization in **XPATH, XQuery, XML, XSL,** and **XSLT**.
- Developed various **CQ5** template and component end-end that supports the migration of existing **Adobe CQ 5.6.1** to **AEM 6.0**.
- Developing the Equities Trading system in **Core Java**.
- Developed **WCM** Use Classes and Sling Models to meet the requirement.
- Used popular **Node**.**JS** frameworks like Express and Restify to build **Restful API**.
- Deployed **Spring Boot**-based microservices **Docker** and **Amazon EC2** container using **AWS** admin console.
- Integration of **Amazon Web Services** (**AWS**) with other applications infrastructure.
- Implemented unit test for testing **Angular** components with frameworks using **KARMA** and **JASMINE**.
- Done core financial model design and implementation (**Node.Js, AWS**).
- Implementing authentication using **OAuth2** and **JSON Web Token** (**JWT**).
- Developed the automated unit test cases for the **Microservices** using **Junit, Mockito**, and **Sonar** and deployed them in the **Jenkins** pipeline.
- Integrated **Spring DAO** for data access using **Hibernate**, used **HQL** and **SQL** for querying databases.
- Designed and developed **LSR** Receive applications using **Night fire Framework**, **Core Java**, JSP.
- Involved in writing **Java API** for **Amazon Lambda** to manage some of the **AWS** services.
- Developed custom templates, components, and widgets using **AEM** and integrated Components with **Angular JS**.
- Experienced in **AEM** architecture and associated technologies like **Sling**, **OSGI**, **Felix**, **JackRabbit**, **JCR**, and **CRX**.
- Worked on Custom **OSGI** services, **workflows**, scheduler jobs development.
- **RESTful HTTP API** for client and financial data (**Nodejs**), as well as various **APIs** for other services and integrations (**Scala/Spray**)
- Used **Hibernate**, **JPA** object-relational mapping (**ORM**) solution, technique of mapping data representation from **MVC** model to **Oracle** Relational data model with an **SQL**-based schema.
- Worked on dispatcher cache in **AEM** and **microkernel** while working on auto-login scenario.
- Developed Microservices using **Spring Boot**, and **Spring Cloud** with Netflix Eureka to create the discovery Server, service, discovery clients and integrated **Apache Kafka** and Zookeeper as message brokers. Used **Swagger** to design and document **Microservices**.
- Wrote scheduled batch jobs on **UNIX** environment for handling various huge databases update logics without manual interventions.
- Developed backend bundles using **OSGI**, and written web services plug-ins to interact with back end web services.
- Worked on creating Security groups in **AEM**.
- Used **GIT** as Version Control Tool and used **JIRA** tool for issue/bug tracking.

**Environment:**
**Java/J2EE, Agile, Scrum, Angular4, HTML, CSS, JavaScript, XML, AJAX, Spring Boot, Spring ORM, Hibernate, Spark, Oracle, Kafka, MongoDB, Servlets, Microservice, PCF, Tomcat, Log4j, Junit, REST, JSON, Eclipse IDE, GIT, Maven and Windows.**

**Siemens, Remote**
**Software Engineer**                                                                                            **May 2019 – Sep 2019**

**Responsibilities:**
- Refactored multiple subroutines in Polarion by employing algorithmic optimizations and reducing

redundantoperations, resulting in a **2 second** improvement in loading of complex workflow diagrams.

- Coded a logging tool for a Mendix application to provide real-time performance monitoring enabling theidentification and analysis of system bottlenecks, improving troubleshooting by **up to 100%**.
- Developed a self-generating connector prototype for in-house microservices using the **Mendix** which enabledperforming **CRUD** operations on all the microservices in the Siemens local network.
- Designed and developed dynamic and responsive software using **Java**, **Selenium**, **JavaScript**, and **HTML**.
- Developed **Adobe AEM** templates and reusable components.
- Installed and configured **AEM** 6.1 of **Adobe** CQ Web Content Management System.
- Worked with **Cucumber** framework to automate several test cases of Costco Self-Checkout Refund Software.
- Experience on **AWS** Deploying, managing and operating scalable, highly available, and fault tolerant systems and managed continuous delivery systems and methodologies on **AWS**.

## Recent Publications with links

- **Deciphering Emotional Responses to Music: A Fusion of Psychophysiological Data Analysis and LSTM Modeling**
- **Detecting Cyberbullying across multiple social media platforms using Deep Learning**

## Recent Achievements

- **Awarded full scholarship of $113,000 (including monthly stipend) for graduate program at Virginia Tech.**
- **Honored with the Mediaocean Rising Star award recognizing outstanding performance and contributions.**