Achal Shah

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**Professional Summary:**

* Highly accomplished IT professional with around 7 years of experience developing web-based, enterprise, and client-server applications. Proven expertise in both **front-end** and **back-end** technologies within n-tier applications.
* Implemented **CI/CD** systems using **Jenkins on Kubernetes and Docker,** ensuring efficient **Cl/CD** processes.
* Configured and deployed Web Applications to **Azure**, leveraging various **Azure services** like **Azure Application Gateway, Azure DNS, Azure Traffic Manager**. Also Implemented Security in Web Applications using **Azure.**
* Developed **Restful web services** and **Micro Services** using **Golang** and **Spring Boot**.
* Extensive experience with **AWS** services including **EC2, S3, RDS, DynamoDB,** and **Elastic Beanstalk**.
* Developed data ingestion modules using **AWS Step Functions, AWS Glue,** and **Python** modules.
* Proficient in web application development using **Django/Python** and **Flask/Python**.
* Hands-on experience implementing **Python3** **libraries** such as **NumPy, SciPy, PyTables, SQL Alchemy, Matplotlib** and **Pandas** for diverse tasks.
* Exceptional proficiency in **Java Multithreading**, **Collections API,** and **Swing programming**.
* Applied **Java/Spark** for streaming file **analysis**, **transformation**, and **validation**.
* Led projects using **AGILE methodology with Scrum**, emphasizing continuous improvement.
* Proficient with **GitBucket, JIRA, and Jenkins** for Continuous Integration/Continuous Delivery.
* Expertise in **web application** development using a wide range of technologies, including **JDBC, Servlets, JSP, Spring, Hibernate, JavaScript, AngularJS,** and **AJAX**.
* Hands-on experience with **Front-End technologies**, including **AngularJS, Angular, Bootstrap, JSON, ReactJS, NodeJS, JavaScript, CSS3, jQuery, TypeScript, and Ajax** for developing responsive web designs.
* Built custom **Angular** Directives and Services for single-page web applications.
* Experienced in **Azure Kubernetes service** for production-grade **Kubernetes** deployments.
* Proficient in **state management** with **Redux or Context API** for scalable and maintainable applications, with a strong understanding of **React virtual DOM** andcomponent lifecycle to ensure optimized rendering performance.
* Proficient in **database** development across various platforms**, including Oracle, MySQL, PostgreSQL, SQL Server, and MongoDB/Cassandra (NoSQL), as well as DynamoDB.**
* Hands-on experience with **Docker** **components** and **containerized** **applications** on **AWS**.
* Solid background in application and **web servers** such as **WebLogic, Jboss** and **Apache Tomcat.**
* Good working experience with **No-SQL databases, like MongoDB, Cassandra, CouchDB,** and **DynamoDB**.
* Expertise in **Defect/Test Management tools** like **Selenium, JIRA, TestRail and QualityCenter/Test Director**.
* Design and development of single-page web applications using **ReactJS, NodeJS, Backbone, jQuery, TypeScript, ExpressJS, SOAP** and **Bootstrap.**
* Proficient in **creating Dashboards** using **Backbone.JS for faster performance with AJAX** **calls**.
* Involved in **Unit Testing, Functional Testing, and Integration Testing using JUNIT, Log4j and Mockito**.
* Hands-on experience in **CI/CD** processes using tools such as **Maven, Gradle, Jenkins, Hudson, CVS** and **Git**.

**Technical Skills:**

**Languages**: Java, JavaScript, Python3, J2EE, C, C++, SQL

**J2SE Technologies:** JSP, Servlet, JDBC, JSF, Threads, Swing, JavaBean

**Web Technologies:** HTML 5, CSS3, jQuery, Ajax, Bootstrap, AngularJS, ReactJS, NodeJS, ExpressJS, XML, JSON

**Tools & Framework:** Spring, Hibernate, Spring MVC, Spring Web Flow, Spring IOC, Spring AOP, JMS, JSF, Spring Boot, Spring Cloud, Spring Batch, Spring Security, D3.js

**Web services:** SOAP, Restful, UDDI, WSDL, Micro Services Architecture

**Web/App Servers**: Web Sphere, Apache Tomcat, JBoss, WebLogic

**Databases:** Oracle, My SQL, PostgreSQL, SQL Server, Mongo DB/Cassandra(NoSQL), Dynamo DB.

**Development Tools**: VS Code, Eclipse, Net Beans, IntelliJ, Spring Tool Suite

**Testing Tools/ Others**: JUnit, Soap UI, Mockito, Log4j, TestNG, Jasmine, Selenium, Mocha, Chai, TestRail

**Containerization Tool:** Docker, Kubernetes

**Methodologies:** Agile, Scrum, Waterfall, CI/CD, Jenkins

**Cloud Technologies**: AWS EC2, S3, Azure, Elastic Load Balancing, API-Gateway, GCP

**Ticketing Tools:** Jira, Rally, Service Now
**Others:** Git, Maven, Gradle

**Professional Experience:**

 **Client: Charter Communication, Denver, CO June 2023 – Present**

**Role: Sr Software Developer**

* Played a crucial role in the development of the project, contributing extensively to both frontend and backend tasks.
* Created **UI** elements for managing inventory, scheduling automated scripts, tracking firmware progress, and generating reports.
* **Developed** **APIs** for inventory management, device reservation, script scheduling and **validation**, script results, and speed testing of cable modems.
* Contributed significantly to the **frontend development** leveraging **React, JavaScript, and Node.js** to create an intuitive and user-friendly interface.
* Developed and maintained the project's **backend infrastructure** using diverse **Python3** versions (3.6, 3.8, and 3.11), ensuring optimal performance and compatibility.
* Developed **GUI** using **Python3 and Django** for dynamically displaying block documentation.
* Integrated **Jira** with the **CI/CD** pipeline for automated **testing** and **deployment**.
* Designed and configured a **MySQL** **database** along with backend applications and programs. Developed advanced **Python3** scripts for seamless **data migration** from a proprietary **database to MySQL.**
* Expertly developing innovative web application modules using a robust tech stack, which includes **Python3, JavaScript, Node.js, React.js, TypeScript, Django, Flask, Regex, MySQL, and Git** as the version control system.
* Engineered a comprehensive automated continuous integration system leveraging **Git, Jenkins, MySQL,** and custom tools crafted in **Python and Bash**.
* Utilized **Docker** for **containerized** deployment, and consistent environments across development, testing, and production.
* Implemented Swagger for **API** Documentation and **Postman** for **testing** the **APIs**.
* Developed and maintained **backend** services ensuring seamless communication between the **frontend GUI and the backend functionality**.
* Used the **Node.js** and **React.js** frameworks during the development of web applications, conducting unit testing through **JUnit** and **TestRail**.
* Enhanced development efficiency by utilizing **NPM** scripts for automated tasks, including building, testing, and deployment.
* Conducted code reviews, emphasizing best practices in **JavaScript** for code quality and maintainability.
* **Documented** **API** specifications and functionalities for future reference and maintenance.

**Environment:** Python3, JavaScript, Node.js, React.js, MySQL, TypeScript, Django, Flask, Postman, Jenkins, Junit, RESTful API, Jira

**Client: Oracle, Santa Clara, CA Apr 2022 – June 2023**

**Role: Sr. Full Stack Developer**

* Engaged in multiple stages of the **Software Development Life Cycle (SDLC),** encompassing requirement gathering, modeling, analysis, architecture design, and prototyping.
* Integrated **OAuth0 authentication** to enhance security and enable single sign-on (SSO) across multiple platforms, ensuring a unified and secure user login.
* Deployed **AWS RDS for OracleDB** within **AWS** services to create a scalable and resilient database infrastructure.
* Created a **Spring Boot** application with **microservices** architecture and deployed it on **AWS** using **EC2**.
* Configured **Spring** with a custom **JwtTokenProvider**, integrated **JwtFilter**, and ensured global **CORS** compatibility.
* Proficient in **JavaScript** for both **frontend** and **backend** development, leveraging frameworks such as **React.js** and **Node.js** to create scalable and responsive applications.
* Designed and developed **RESTful APIs** using **Node.js**, facilitating data exchange in **JSON** format.
* Integrated third-party services, **APIs**, and **Hibernate** seamlessly into **Spring Boot** applications.
* Integrated **RESTful APIs** and GraphQL endpoints into **React** applications for seamless data retrieval.
* Proficient in **state management** using **React Hooks**, **Context API** and **Redux**.
* Implemented secure and efficient communication protocols for microservices in a modern architecture using **Java 11** **HTTP** Client **API**.
* Integrated **JavaScript** with **CSS** for captivating and responsive web development.
* Implemented **routing** and **navigation** in **React applications** using **React Router.**
* Integrated **AWS S3** for scalable object storage and **AWS EC2** for efficient compute, ensuring optimal performance and secure data accessibility in the cloud.
* Utilized **Oracle** **SQL** Developer and other **OracleDB** administration tools for effective monitoring and maintenance.
* Implemented **Docker** for **containerization**, creating portable environments, and seamlessly orchestrated applications with **Kubernetes**, **optimizing** **performance** and **scalability**.
* Executed **OracleDB** backup and recovery procedures, ensuring data availability and disaster recovery readiness.
* Partnered with DevOps for microservices architecture design and deployment on **Kubernetes**-managed **Docker** containers.
* Led code reviews, adhering to best practices in **Java 11** and **Spring framework** development, emphasizing code quality and maintainability.
* Expert in configuring **CI/CD** tools (**Jenkins, GitLab CI/CD, Jira**) for automated build, **test**, and **deployment** processes.
* Implemented automated testing within **CI/CD** pipelines using tools like **JUnit**, **Selenium**, or other **testing** frameworks to ensure code quality.

**Environment:** Spring Boot, Java, JavaScript, Node.js, React.js, AWS, OracleDB, OAuth0, Docker, Kubernetes, Jenkins, Junit

**Client: Adobe, New York Apr 2021 – Apr 2022**

**Role: Full Stack Developer**

* Contributed as a Full Stack Developer at Adobe, proficiently utilizing a diverse range of **frontend** and **backend** technologies to deliver innovative solutions.
* Used **Java** frameworks (**Spring, Hibernate**) for streamlined **backend** development, ensuring efficient data management.
* Implemented **RESTful** services using **Java** and **Spring Boot,** ensuring optimal **server-side** functionality and robust integration within applications.
* Developed **J2EE**-compliant **Java** code for applications, using technologies such as **JSP, Servlets, JDBC, XML, and EJB**.
* Integrated **RESTful APIs** seamlessly with **Angular** and **TypeScript**, enabling efficient data retrieval and updates.
* Created user interface for a dashboard utilizing **AngularJS, HTML, CSS, Bootstrap, JavaScript,** and **JQuery**.
* Performed **CRUD** operations like **Update, Insert and Delete data** in **NoSQL** database **MongoDB**.
* Streamlined deployment using **Docker** in **Azure Kubernetes Service (AKS)** for efficient scaling and management of containerized applications.
* Optimized **Angular** app performance using **Redis** as a caching layer for frequently accessed data.
* Secured **Docker** container images in **Kubernetes clusters** with **Azure Container Registry (ACR),** ensuring reliable access and management.
* Seamlessly integrated **MongoDB** with **Azure Cosmos DB** for efficient data storage and retrieval in the **Azure** cloud.
* Configured **Hibernate** Objects as **Spring Beans** in **spring** configuration file.
* Implemented **Spring** core applications with **Maven** and proficient in build tools such as **Maven, Ant,** and **Gradle**.
* Streamlined task management and **sprint planning** in **Jira,** aligned with **CI/CD** best practices, enhancing overall efficiency.
* Collaborated with **QA** to implement best practices for **Selenium, TestNG, and Log4j,** ensuring reliable automated **testing**.

**Environment:** Java, Angular.js, JavaScript, Azure, MongoDB, TypeScript, Docker, Kubernetes, Maven, Gradle, Selenium, Spring, Redis

**Client: - McKinsey & Company, Ney York May 2019 - Mar 2021**

**Role: Sr. Front End Developer**

* Participated in the analysis, design, coding, and development of enhancements and change requests, ensuring timely delivery.
* Utilized **Python3** frameworks such as **Flask** and **Django** for efficient backend development, complemented by **JavaScript** frameworks like **React.js and Node.js** for interactive and scalable frontends.
* Developed scalable backend solutions in **AWS** using **Python**, leveraging **AWS Lambda** and **AWS EC2** for efficiency.
* Used **Django**'s **MVC** architecture with **Python3** for scalable and organized backend structures in web applications.
* Enhanced data security by establishing secure connections between **AWS EC2** instances and **S3** using **AWS VPCs**.
* Leveraged **Django**'s built-in features for rapid development, including **authentication, URL routing, and templating**.
* Integrated **RESTful APIs** between **React.js** and **Node.js,** ensuring efficient communication and seamless data retrieval.
* Ensured code quality and maintainability through thorough code reviews in **JavaScript, React, and Node.js**.
* Effectively managed data from **AJAX** requests in **React** using its state management, maintaining a seamless flow of information.
* Used **JSON** to format data exchanged via **AJAX**, ensuring a standardized and lightweight structure.
* Integrated **PostgreSQL** for robust and reliable **database** solutions in various applications.
* Ensured smooth integration of applications with **PostgreSQL** databases in collaboration with backend developers.
* Streamlined **API** development and testing by utilizing **Postman**, a comprehensive **API** client.
* Automated web interactions and testing scenarios using **Selenium**, a powerful open-source framework.
* Effectively utilized **Jira** as a comprehensive project management and issue tracking tool.
* Implemented **CRUD (Create, Read, Update, Delete)** operations to manage data effectively within databases.
* Used **Log4j** for capturing and analyzing logs during **JUnit** tests, aiding in troubleshooting and issue identification.

**Environment:** Python3, React.js, JavaScript, AWS, Django, Flask, PostgreSQL, Selenium, Jira, CI/CD, Postman, Junit, AJAX, Git

**Client: Slack, San Francisco Apr 2018 – Apr 2019**

**Role: Frontend Developer**

* Developed responsive and user-friendly web interfaces using **React.js** for scalable and interactive applications.
* Implemented various **Spring** framework components, including **Spring MVC, Security, IOC, AOP,** and **Spring Boot.**
* Developed advanced web applications using **React** for dynamic **UI** components, **JavaScript** for **client-side** scripting, and **Bootstrap** for consistent and responsive designs, ensuring a seamless and visually appealing user experience.
* Implemented best practices in **HTML** and **CSS** to optimize website performance and maintainability, emphasizing clean and efficient code.
* Resolved **NPM** dependency issues collaboratively to ensure project stability.
* Expert in client-side scripting with **JavaScript**, creating dynamic user interfaces using **React** for frontend components and **Node.js** for efficient server-side logic.
* Built scalable web applications efficiently with **Express.js,** a flexible **Node.js** web framework.
* Collaborated with **DevOps** teams to integrate **Java 11** and **Spring** applications seamlessly into deployment pipelines.
* Led knowledge-sharing sessions and mentored team members to boost proficiency in **Express.js** development.
* Skilled in **API** development and testing with **Postman**, streamlining the creation and maintenance of **APIs**.
* Integrated **Log4j** for efficient logging in **unit testing**, aiding effective debugging and error analysis.

**Environment:** React.js, Node, JavaScript, Jira, CI/CD, Postman, Junit, AJAX, Git, Java, Express.js, Spring, HTML, CSS, NPM, Postman

**Client: FedEx, Memphis Jan 2017 – Mar 2018**

**Role: Java/J2EE Developer**

* Built robust backend solutions with **Java 8**, leveraging features like **lambda** expressions for efficient and concise code.
* Used **MySQL** databases seamlessly with **Java Persistence API (JPA)** and **Hibernate**, enhancing application layer.
* Integrated **Hibernate** for efficient **ORM**, ensuring seamless connectivity in **Java 8** applications, **Spring**, and **MySQL** database.
* Showcased **MySQL** expertise in **database** design and management, ensuring data integrity and efficient retrieval.
* Implemented **RESTful APIs**, leveraging **Express.js** to handle **HTTP** requests, route management, and data processing.
* Proficient in **JavaScript** for both frontend and backend development, leveraging **Node.js** to create scalable and efficient server-side applications.
* Applied **Git** workflows, such as **Gitflow**, to manage feature development, releases, and hotfixes effectively.
* Efficiently managed and prioritized tasks using **Jira** boards, ensuring transparent and streamlined project workflows.
* Proficient in **Postman**, utilizing it for efficient **API development**, **testing**, and **documentation**, streamlining the software development lifecycle.
* Executed thorough **unit testing** with **JUnit**, ensuring code reliability and correctness.

**Environment:** Java, Express.js, JavaScript, Node.js, Hibernate, MySQL, Postman, Jira, CI/CD, Postman, JUnit, Git, HTTP

**Education:**

**Stevens Institute of Technology, Hoboken, NJ**

Master of Science in Computer Science