

# SONALI MAHENDRAKAR

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## PROFESSIONAL SUMMARY

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- Over three years of Software Development experience in Java, Frontend (JavaScript, Angular) and Backend (Spring framework) with comprehensive knowledge of Java Collections, Multithreading, Data Structures and Algorithms, Debugging, Exception Handling and Object-Oriented Design Principles.
- Skilled in solving complex problems with the use of advanced technology solutions. Demonstrated success in scaling projects and delivering desired outcomes. Dedicated to utilizing expertise software engineering to foster innovation and drive positive change
- Hands-on experience working with AWS cloud services like ECS, Lambda, EC2, S3, IAM, SNS, SQS, Cloud Watch, DynamoDB and RDS along with Kubernetes, Docker.
- Proficiently managed projects in fast-paced, competitive environments, leading complex initiatives and collaborating with stakeholders to navigate ambiguity and fulfill requirements, fostering collaboration and ensuring project success.

## TECHNICAL SKILLS

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<b>Languages</b>	: Java, Python, JavaScript, MySQL, C & C++
<b>Frameworks</b>	: Spring Boot, Angular, REST APIs, Docker.
<b>Databases</b>	: MySQL, MongoDB
<b>Testing</b>	: Junit, Mockito, PostMan
<b>Others</b>	: Linux, Git, HTML & CSS, JSON, XML, JSP, Microservices.
<b>Cloud</b>	: AWS (Dynamo DB, S3, EC2, IAM, RDS, ECS, CloudWatch, Lambda).
<b>Concepts</b>	:Data Structures & Algorithms, Object Oriented Programming, Machine Learning, Artificial Intelligence, Web Development, Operating Systems.

### Certifications:

- AWS Certified Cloud Practitioner
- Oracle – Java explorer

## PROFESSIONAL EXPERIENCE

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### Hubbell Incorporated

Herndon, VA

#### Software Engineer Intern

May 2023- Aug 2023

- Led the seamless migration of Scala-based functionalities to Java within the Analytical Engine project, a 12-year-old monolithic codebase, utilizing SDLC and agile methodology. Achieved significant enhancements in data processing speed while concurrently refactoring the codebase to reinforce maintainability, resulting in an impressive 35% increase in overall project efficiency.
- Incorporated Spring Security for secure authentication and authorization, ensuring protected access to resources.
- Enhanced overall application performance by optimizing database query execution, and meticulously examined the endpoints using JUnit and Postman to validate functionality and handle edge cases, ensuring that the API system maintains an efficacy rate of over 80%.
- Applied DevOps practices and CI/CD pipelines in Azure cloud-based environments, showcasing proficiency in GIT for source control and a range of tools such as Jenkins Pipeline.

### George Mason University

Fairfax, VA

#### Graduate Teaching Assistant

Aug 2023 – Present

- Teaching Assistant for Cloud Infrastructure, Cloud Services Management, Big Data on Cloud Systems Responsibilities in AWS, Azure, GCP and it included optimizing course content, assessing assignments, and providing office hours support for a cohort of 100+ students.
- Additionally, offering real-time troubleshooting and programming solutions that led to a 90% pass rate and a 25% improvement in overall academic performance.

#### Graduate Research Assistant

Sept 2022 – Aug 2023

- Developed a full stack application, Employee Resource Information Center by implementing React.js for the frontend and Node.js with Express.js for the backend, with MongoDB for data storage and management.
- Implemented JSON Web Tokens -based authentication and utilized D3.js for insightful data visualizations, designed this intuitive dashboard with dynamic filtering and CRUD functionalities, and ensured responsive design, deploying the application on AWS using Docker containers for scalability and reliability.

## Cognizant Technological Solutions

Hyderabad, India

### Software Engineer

Aug 2020 – Aug 2022

- Involved in analysis, design, implementation, and testing phases of SDLC and used agile methodology.
- Worked on both the back end and front-end of systems and catered to both user experience and functionality in projects.

#### Enterprise Notification System:

- Worked on the development and testing of automated emails for iOS using AEM, maintained across Android platforms and Oracle SQL Developer, resulting in a 15% improvement in user engagement, while also managing 3 modules for a global user base with Java, Spring Boot and TestNG, enhancing system reliability and scalability.
- Created a pipeline in Jenkins to reduce 30% redundant tasks and performed problem resolution with root cause analysis.
- Performed database validation in Oracle SQL Developer to increase the accuracy by 25%.

#### Pricing in FedEx:

- Led the design and testing of a FedEx GUI using Java, Spring Boot and JavaScript resulting in a 30% improvement in pricing and agreement generation efficiency for clients across multiple countries, while also implementing Apache Version One to track progress in an agile environment.
- Also mapped API, using Postman for Behavioral-Driven framework status and build responsive user interfaces and experiments.
- Demonstrated leadership in Container Orchestration services, leveraging Docker and Kubernetes to achieve a 20% increase in system efficiency, while optimizing performance through the utilization of various Azure tools and services.

## Verzeo Tech

Hyderabad, India

### Software Developer

Jan 2019-Jul 2020

- Managed AEM implementation's technical delivery by overseeing custom development, integration, and data migration aspects in an agile environment.
- Demonstrated proficiency in jQuery, Java, and groovy scripts to implement customized features, diagnose and resolve content structure bugs, and improve website search functionality with 90% accuracy.
- Created a productive admin tool, increasing productivity by 45% and reducing rework And Implemented SSO (Single Sign-on) by integrating Customer identity and access management (CIAM).
- Developed and maintained Microservices APIs using spring boot, PostgreSQL, Redis, Docker, and AWS EC2.

## West Agile Labs

Hyderabad, India

### Software Engineer Intern

May 2018-Dec 2018

- Led the implementation of an application utilizing Agile development practices and Java, Spring and Hibernate technologies, resulting in a 20% improvement in development efficiency.
- Designed and tested the Spring Domain Model using Core Java, while also developing and integrating the frontend with HTML, CSS, JavaScript, and Spring framework with Hibernate for efficient database operations, and worked extensively with Oracle database for seamless data storage and retrieval, enhancing application robustness and performance.
- Developed DDL and DML scripts to establish tables and manage privileges, collaborated on web component design and development using Java, Spring framework, and JSP servlets, and optimized object loading and storage with Hibernate, enhancing overall application functionality and scalability.

## EDUCATION

### George Mason University

Fairfax, VA

Master of Science in Computer Science

Aug 2022 – May 2024

### Jawaharlal Nehru Technological University

Hyderabad, India

Bachelor of Engineering in Computer Science

2016-2020

## PROJECTS

### University FeedbackXpress

Aug 2023- Dec 2023

- Developed user friendly survey applications with ReactJS, powered by scalable Spring Boot microservices and RESTful APIs, improving GMU student experience with a 30% faster page reload time.
- Employed Docker, Kubernetes, Jenkins CI/CD pipeline, and Amazon RDS/SQL for optimal performance, storage, and deployment, contributed to 40% reduction in deployment time.

### Data Analysis and Sales Optimization Strategy

Jan 2023 - Apr 2023

- Led a project utilizing SQL-based data analysis to optimize sales strategies by comprehensively understanding product performance, sales trends, and customer behavior, resulting in a 40% increase in sales effectiveness.
- Conducted data wrangling, database creation, and feature engineering, extracting insights such as sales by time of day and day of the week through exploratory data analysis, facilitating actionable insights for sales enhancement.