# IRSHAD A. SCHOWRAI

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## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, JSON, HTML5, CSS3.
**Framework:** Spring Boot, Hibernate, Spring Cloud, Junit, WireMock, ReactJS, Axios, React Query, Flask.
**Web Technology**: REST, Microservice, Apache Kafka, Bootstrap, OAuth, JWT, Eureka Discovery, RestClient, WebClient.
**Database (SQL/NoSQL/Caching):** MySQL, MSSQL, PostgreSQL, MongoDB, Redis.
**Cloud Computing:** AWS (EC2, S3, Lambda, DynamoDB, RDS, SQS, SNS, CloudWatch).
**Tools:** Git, Postman, GitHub, Maven, Jenkins, Docker, Kubernetes, Prometheus, Grafana, Loki, Tempo, DevOps, Agile, Jira.

## PROFESSIONAL EXPERIENCE

**WAVESOFT SOLUTIONS INC | Software Engineer |** Boston, United States                **Mar 2024 – Present**
- Developed REST APIs using Spring Boot to store and manage client insurance information in AWS S3, and wrote MySQL scripts to add and assign global UUIDs to existing files, enhancing data organization and retrieval.
- Automated real-time data processing and storage in RDS MySQL using a Spring Boot application integrated with AWS Lambda, triggered by S3 events via EventBridge, improved system efficiency by 30% and handled over 5000 events daily.

**ERNST & YOUNG LLP | Senior Consultant |** Bangalore, India                **May 2021 – Dec 2021**
- Designed and developed a full stack web application to capture shipping records processed with Java Data and Time API, leveraging React and Spring Boot to develop RESTful APIs to fetch data from PostgreSQL and MongoDB.
- Optimized backend systems in Spring Boot to fetch and process millions of financial records in under 3 minutes, utilizing efficient query design, batch processing, and parallel streaming to enhance performance and scalability.
- Implemented a data streaming solution using Apache Kafka, Avro for data serialization, and Schema Registry for schema management, ensuring efficient and reliable data transmission with schema evolution support.
- Performed root cause analysis of defects in production environment and devised strategic plans with team to fix them which improved user and client experience by 10%.

**JK TECHNOSOFT LTD | Senior Developer |** Noida, India                **Sep 2020 – May 2021**
- Developed a dynamic React-based web application with advanced data visualization features, including interactive filtering, pagination, and sorting, to streamline the analysis of large datasets, enhancing user experience and data accessibility.
- Enhanced data processing efficiency in Azure SQLDB by optimizing stored procedures and integrating Spring Batch, enabling the rapid processing of millions of records based on user-defined criteria, resulting in a 50% reduction in response times.
- Implemented real-time statistical analysis and complex business logic using Java Bean components, driving cost-effective solutions for financial data processing, and significantly improving the performance of time series analysis systems.

## PROJECTS

**E-commerce Java Backend Project:** GitHub repository link                **Aug 2024**
- Designed and developed an E-commerce Java Spring Boot microservice architecture, configured OAuth2 with Keycloak and Spring Security for authenticated user transactions and integrating email notifications for order confirmations.
- Integrated RestClient and Kafka for inter-service communication, utilizing Resilience4j for fault tolerance and Flyway for database migration. The application was containerized using Docker and deployed through Kubernetes (KIND).

**Fileserver Challenge:** GitHub repository link                **Apr 2023**
- Developed a high-performance middleware using Flask and Redis to optimize a backend file server, achieving a maximum sustained throughput of 500 RESTful API calls per second and handling 135,000 API calls in 7 minutes during load testing.
- Containerized the middleware and deployed it using Docker with 5 replicas, ensuring efficient resource management within a constrained environment of 2 CPU cores and 4GB of memory.

**Olympics Dashboard:**                **Oct 2022**
- Created a single-page web application using React and the Spring framework, allowing users to view current athletes and their performance, compare results with past athletes, and analyze match results from previous tournaments.

## EDUCATION

**Clark University - USA | CGPA: 3.61/4.0**                **Jan 2022 – Dec 2023**
Master of Science in Computer Science
**University of Madras – INDIA**                **Jun 2005 – Mar 2008**
Bachelor of Computer Application

## CERTIFICATES

- **Confluent Fundamentals Accreditation**: Proficient in Apache Kafka: Real-Time Streaming.        Certificate Link        **Jul 2024**
- **Oracle Java Explorer**: Scored 100% in Oracle Java Explorer assessment.        Certificate Link        **Jan 2024**
- **Forage Walmart Global Tech**: Advanced Software Engineering Job Simulation.        Certificate Link        **Oct 2023**
- **Forage LYFT**: Back-End Engineering Job Simulation.        Certificate Link        **Oct 2023**