# IRSHAD A. SCHOWRAI

Worcester, MA | + 1 (774) 696-9620 | Irshad_ahmeds@yahoo.com | GitHub | LinkedIn | www.iaschowrai.com

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## EDUCATION

**Clark University - USA | CGPA: 3.61/4.0**                                               **Jan 2022 – Dec 2023**
Master of Science in Computer Science
**Coursework**: Design and Analysis of Algorithms, Server-Side Web Programming, Software Engineering, Software Quality Assurance and Testing, Software Development and Operations (DevOps), Applied Data Analytics, and Fundamentals Data Engineering.

**University of Madras – INDIA**                                                          **Jun 2005 – Mar 2008**
Bachelor of Computer Application

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## TECHNICAL SKILLS

**Programming Languages/Framework**: Java, Python, Flask, HTML5, CSS3, REST web services, Microservice Architecture.
**Cloud:** AWS (EC2, S3, DynamoDB, SQS, Lambda, CloudWatch), Azure (Data Factory, Data Lake Storage, Function, SQLDB).
**Database:** MySQL, MSSQL, PostgreSQL, MongoDB, Redis.
**Tools:** Junit, Git, GitHub, Docker, Postman API, Jira, Azure DevOps Board, Bootstrap, Prometheus, Grafana stack, Agile.

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## PROFESSIONAL EXPERIENCE

**ERNST & YOUNG LLP | Senior Consultant |** Bangalore, India                            May 2021 – Dec 2021
- Developed Java Bean components to implement a strategic business logic that streamlined an internal application by 14%, acquiring process improvement/efficiency in company operations.
- Processed data efficiently using data structures and algorithms, resulting in 40% faster processing times and a 25% decrease in memory usage, significantly improving overall system performance and resource utilization.
- Orchestrated Spring Batch processes to define jobs with extraction, transformation, loading steps, and managed transaction handling, increasing data processing reliability by 30%.

**JK TECHNOSOFT LTD | Senior Developer |** Noida, India                                 Sep 2020 – May 2021
- Created a customizable business logic to filter and deliver targeted data based on client-specified parameters, providing hourly data for each requirement.
- Utilized AWS Lambda in Java to automatically trigger upon Amazon S3 file uploads, Apache POI for file conversion and monitor logs in CloudWatch. Integrated with DynamoDB to process over 5000 records per cycle with a 99.9% accuracy rate.
- Developed and deployed a high-performance application, reducing the response time by 50% by optimizing database queries.
- Optimized database performance by implementing a stored procedure in MySQL that dynamically transposes data, significantly reducing processing time from 45 minutes to 2 minutes for data retrieval operations.
- Tracked tasks, bugs using Azure DevOps, documented findings and improved application quality by ensuring seamless integration.

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## ACADEMIC PROJECTS

**JWT authentication and Authorization with Spring Boot, MongoDB, S3:** GitHub Repository Link          Jun 2024
- Implemented user registration and authentication services using Spring Boot, MongoDB, and JWT for token generation, ensuring secure password encryption with PasswordEncoder and seamless integration with AuthenticationManager for login functionality.
- Leveraged Java Streams API and lambda to map between entities and DTOs, enhancing data transformation and abstraction.

**File Management with Spring Boot - Asynchronous Processing:** GitHub Repository Link          Feb 2024
- Developed a Spring Boot-based file management system enabling efficient file upload, caching, retrieval, and deletion. Implemented asynchronous processing for loading files into cache, ensuring high performance and reliability.
- Utilized annotations like `@Async`, `@Cacheable`, and `@Transactional` for optimizing tasks and ensuring data consistency.

**Quiz Bank Microservice Architecture:** GitHub Repository Link          Jan 2024
- Designed and implemented a microservices architecture, Integrated Eureka for service registration and discovery and utilized OpenFeign with Circuit Breaker for efficient inter-service communication with fallback method. Monitored traces, logs, and metrics using Prometheus and Grafana.
- Designed and created a RESTful API web service facilitating seamless communication between microservices for CRUD operations, with the Quiz Service dynamically retrieving questions and computing scores, ensuring scalable and efficient interaction.

**Fileserver Challenge:** GitHub Repository Link          Apr 2023
- Leveraged Python and Flask for middleware development, integrates with Redis, and Docker Compose for orchestration.
- Optimized file server operations to handle over 500 API calls per second, successfully processed 135,000 API calls within a 5-minute period. Achieved system stability while adhering to strict resource constraints, including an aggregate limit of 2 CPU cores, 4GB memory, a maximum of 5 file servers, and no more than 10 concurrent connections per file server.

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## CERTIFICATES

- **Oracle Java Explorer**: Scored 100% in Oracle Java Explorer assessment.          Jan2024
- **Forage Walmart Global Tech**: Advanced Software Engineering Job Simulation.          Oct 2023