

SOBAN FARHAN

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SKILL STACK

- **Proficient:** Java, Python, .NET Core, Django, Docker, T-SQL, NoSQL, Git, Docker, Kubernetes, Jenkins, Elasticsearch
- **Familiar:** C#, TypeScript, React, NodeJS, Salesforce, CI/CD, AWS

PROFESSIONAL EXPERIENCES

Backend Developer	<i>IBM Canada Ltd</i>	2024 – 2025
• Contributed to the migration of lexical search service from a legacy 10+ stage custom pipeline to a standardized 3-stage pipeline, reducing total build , unit test and deployment time from over 1hr+ to 30min .		
• Implemented a multithreaded Gradle approach to new pipeline unit test suite, cutting execution time from 20 minutes to under 9 minutes to increase feedback and faster code check-in.		
• Engineered and managed the complete FVT suites across Dev, QA, and Prod environments ; maintained full ownership of environmental validation and integration steps since inception.		
• Collaborated and helped onboard our LLM service from a cloud sidcar container model to its own dedicated microservice add-on to be utilized by other services as part of the on-premise cluster releases.		
• Refactored 20+ legacy FVT files and authored 100+ new scenarios into a consistent pattern, providing validation for the lexical and semantic synonyms search service logic .		
• Helped implement a batch multi-search feature, allowing up to 30 queries in a single API call reducing API calls by 70%, from 1000 to 30 , improving efficiency and integrating seamlessly with internal solution.		
• Engineered and took ownership of a centralized health-check monitoring service that performed real-time API heartbeats across microservices utilizing lexical search to ensuring 24/7 observability and service degradation.		
• Optimized lexical search queries, reducing search time by 20% through the deduplication of semantic synonyms and enhancing overall application performance.		
• Improved semantic model query times by 60% through the implementation of LRU , Redis and Elasticsearch caching, reducing latency and enhancing real-time search capabilities .		
Software Developer	<i>Re:Sound Music Licensing</i>	2021 – 2023
• Expedited performance analysis for an in-house .NET REST API (E10) by leading a test sync. Created 50,000 users and 300,000 invoices to outline pain points regarding slow response time and high memory usage .		
• Improved E10 performance by switching from Classes to Structs and replacing ORM usage with direct calls to stored procedures . These changes had a 60% - 70% reduction in overall processing time from 15s requests to 5s .		
• Played a pivotal role in our new application called something_funky , which consisted of finding discrepancies in data between in-house ALLIANT and Crescendo databases. The solution was built using Python to help with manual review and effectively reduce manual efforts by 30% - 40% by finding discrepancy patterns.		
• Expanded something_funky infrastructure by creating CI/CD pipeline. This initiative was to expedite builds, unit-testing and newer releases to an expanding list of feature requests alongside performance optimization.		
AI Research Assistant	<i>AI HUB</i>	2024 – 2025
• Applied my knowledge and understanding of Python, Flask, and Docker to create and maintain REST API . The project concluded with a setup to allow communication between the API and prototype regression models .		
• Created various models ranging from classifier, logistic, neural network, etc., and afterward optimized model performance by tweaking hyper-parameters .		
• Improved data quality by cleaning and normalizing , and afterward stored data in NoSQL (MongoDB) to keep records of historical and future entries.		
• Contributed to daily SCRUM meetings while mentoring new researchers to highlight collaborative abilities and potential for leadership .		

EDUCATION

• Ontario Tech University , Bachelor of science in Computer Science	2023 - Present
• Durham College , Advance Diploma in Computer Programming and Analysis	2017 - 2020