

# Syed Ibtehaj Raza Rizvi

Ottawa, Ontario, Canada

(819) 700 2126 • [ibtehajraza@gmail.com](mailto:ibtehajraza@gmail.com) • [ibtehajraza.github.io](https://ibtehajraza.github.io) • [in/ibtehajraza](https://in/ibtehajraza)

---

A skilled software developer with a master's in AI/ML, experienced in building scalable systems and working with LLMs. Passionate about applying machine learning to real-world problems and staying up to date with emerging technologies.

---

## WORK EXPERIENCE

### Software Developer

Techinsights, Ottawa, Canada | 2023 - PRESENT

- Design and develop scalable cloud applications, incorporating AI/ML models and modern backend architectures.
- Build and optimize intelligent systems leveraging large language models (LLMs), Retrieval-Augmented Generation (RAG), and agent-based frameworks.
- Implement DevOps and CI/CD pipelines to streamline the deployment of AI applications on cloud platforms.
- Provide mentorship to junior developers, actively supporting team members, and promoting knowledge sharing within the team.
- Improve system performance by refining data retrieval, API integration, and database optimization.
- Used tech stack: *Python, JavaScript, Spring Boot, ChatGPT API, Ollama, LLMs, RAG, DynamoDB, PostgreSQL, REST APIs, Git, AWS.*

### Full-Stack Java Backend Developer

Remote | 2021 - 2023

- Led the development and implementation of the LoopingBack.ai platform, streamlining internal organization surveys, customer feedback processes, and new hire management using machine learning techniques.
- Collaborated with cross-functional teams to gather requirements, design applications, and enhance the user experience of the LoopingBack.ai platform, resulting in a 30% increase in user engagement.
- Utilized AWS's EC2, S3 buckets, Elastic Beanstalk, and CodeCommit to oversee end-to-end deployment procedures, reducing deployment time by 40% and enhancing overall system stability.
- Conducted thorough product testing and quality assessment, ensuring a high-quality user experience and reducing the number of critical issues reported by 60%.
- Used tech stack: *Spring Boot (Java), Struts2 (Java), JavaScript, Python, LLM, MongoDB, MySQL, REST API Development, Weka, Twilio, Git and AWS.*

### Senior Software Engineer, Fintech

Avanza Solutions, Pakistan, UAE and Bahrain | 2019 - 2021

- Contributed to the development and deployment of a versioning system exposing personalized services for different clients and facilitating the maintenance of older flows using Java and SQL.
- This resulted in a 40% reduction in compatibility issues and a 70% acceleration in the rollout of new features.
- Leveraged REST adapters to seamlessly integrate with SAP and AD, for data synchronization.

- Played a key role in the successful deployment of the Etisalat e-wallet, a joint venture between Etisalat and Noor Bank. Capable of making remittances to more than 350,000 locations in over 200 countries.
- Created an alert system to provide real-time email and push notifications for failure in the transaction flow.
- Used tech stack: Java, C#, .Net, MSSQL, NoSQL (Firestore), WSDL, REST/SOAP APIs, SVN/Git, Twilio.

## Software Engineer

UHF Solutions, Pakistan | 2018 - 2019

- Developed an EMR (Electronic Medical Record) mobile app with offline sync support using Java and Kotlin, enabling healthcare volunteers to access patient information without active internet access. Reducing data synchronization issues by 50%.
- Successfully developed and deployed a sales and employee management app with an inventory management system, resulting in a 30% increase in sales revenue within the first quarter of implementation.
- Used tech stack: Java, Kotlin, RDBMS (MySQL and SQLite) and Firebase (For notification and employee tracking).

## EDUCATION

### Master of Science (M.Sc.) in Software Engineering

*École de Technologie Supérieure (ETSMTL) | Montreal, Canada*

**Master's Thesis:** *General Aviation Safety using Machine Learning (Meta-Learner).*

Developed and implemented a cutting-edge trajectory prediction system leveraging machine learning and meta-learners to optimize air traffic control and enhance flight safety.

**Skills:** Analytical Skills · Machine Learning · PyTorch · Git · Tensorflow · Anaconda · Jupyter Notebook · Flight Simulation · Bash · Linux

### Bachelor of Science (B.Sc.) in Computer Science (CS)

*National University of Computer and Emerging Science (FAST) | Karachi, Pakistan.*

## SKILLS

- Java · Spring Boot · JavaScript · Python · PyTorch · RAGs · LLM · Ollama · AWS · PostgreSQL · NoSQL
- MongoDB · Git · SVN · Rest and SOAP APIs · Docker · Test Driven Development · Agile · CI/CD