

# Milad Vadood

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I enjoy building and making an impact through my work. Throughout my career, I've taken on various roles, from being an individual contributor to leading a team. I've been both a geeky coder and the face of the tech team in front of clients, and I've enjoyed doing both. I'm language agnostic and believe in getting the job done regardless of the technology involved. I've worked in large organisations, small startups, and even for myself, gaining diverse experiences and insights from different parts of the world.

## PROFESSIONAL EXPERIENCE

**Oct 2024 – Now**     **Senior Full-Stack Software Engineer**, Audience Republic, Sydney

**Audience Republic (AREP)** is a marketing platform for events, integrating with major ticketing systems to boost ticket sales through CRM, email marketing, automation, and data capture tools.

As part of a new team, my responsibilities include:

- Maturing and stabilizing AREP to support growth.
- Refactoring the system into microservices.
- Implementing robust logging and monitoring solutions.
- Designing and building streaming and CQRS architectures.
- Streamlining development and deployment processes to enhance scalability and team growth.
- Improving the overall scalability of the platform.
- Supporting front-end developers in migrating the solution to Vue.js 3.

**Tech Stack:** Clojure, AWS, RabbitMQ, Elasticsearch, Kubernetes, Typescript

**Jun 2024 – Oct 2024**     **Independent Consultant**

I was freelancing and contracting after leaving Quantexa in May 2024. My main activities have included:

- Teaching to and upskilling employees from various organisations ([Skillsoft](#)):
  - Microservices
  - LLM Basics
  - Data Architecture

- Conducting individual consultations for organisations seeking to optimise their tech infrastructure.
- Building RAGs and leading POCs with LLMs

**May 2022 – Tech Lead, Quantexa, Melbourne/ Singapore**

**May 2024** **Quantexa** is decision intelligence platform helping organisations fight against financial crime.

As a technical lead, I led technical teams in the APAC region, delivering products to various organisations.

- Acted as an individual contributor implementing an anti-fraud solution at an Australian bank.
- Led a team of data engineers and business analysts to deliver Quantexa to a Malaysian client. I worked onsite with the team in Singapore and Melbourne to deliver a solution for fighting insurance fraud.
- Led a technical team upgrading Quantexa across various use cases at the bank.
- Worked with various stakeholders across the business, both on the client side and the Quantexa side.
- Served as the intermediary, connecting project managers, delivery managers, architects, engineers, and solution/customer success managers.

**Tech Stack:** Spark, Scala, Python, Airflow, AWS, Hadoop, Kafka, Elasticsearch, SQL, Spring, ETCD, Splunk, Kubernetes

**Jul 2018 – Software and Data Architect, Brolly, Melbourne**

**May 2022** **Brolly** is Australia's first social archiving platform.

A few months after I joined Brolly, it was decided that the platform needed to be re-built using microservices. I was part of a new team of developers responsible for this transition.

- Engaged in critical decision-making about the new architecture, determining what it should be and how to gracefully migrate to it while supporting the old version simultaneously.
- Took core responsibility for the design and development of a dozen microservices.
- Led three teams of University of Melbourne students over the years as part of a course project agreement. They were engaged in building various POCs for Brolly.
- Built several solutions for maintaining the health of Brolly's data pipeline, including logging, error recovery, and replay of previously failed events.
- Utilised a wide range of technologies, which are detailed in the technical skills section.

**Tech Stack:** AWS, Java, Kotlin, Python, Elastic Stack, Redis, Relational DB, Avro, Kafka, Spring, Gremlin & Neptune, Nifi, Kubernetes, Helm

**Mar 2017 – Senior Software Engineer**, Diamond Smart E-payment, Tehran

**Apr 2018** **Diamond Smart E-payment** was a company providing payment solutions to banks.

- Led a team of 5 developers and machine learning experts.
- Participated in training machine learning models for topic detection and sentiment analysis.
- Acted as the link between the tech team and stakeholders in co-planning the product roadmap.

**Tech Stack:** OrientDB, Titan, Java, Python, Scikit-learn, NLTK, Spacy, Neo4j, Solr, Lucene, Socket Programming, RabbitMQ, C#

**2014-2017** Early days of my career. Worked for different companies as a developer and also freelanced a bit while studying.

## TALK

Kafka Summit APAC  
2021

[Sharing Data Among Microservices: How Change Data Capture with Kafka Connect Came to Our Rescue](#)

- Ali Nazemian and Milad Vadood

Global Knowledge –  
Jun/Sep 2024

[Migrating to Microservices](#)

## EDUCATION

AUG 2015

M.SC. in Software Engineering, UNIVERSITY OF TEHRAN

SEP 2012

B.SC In Software Engineering, IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

I have a few academic publications and presentations. Here's a [link](#). I have always been interested in the intersection of socio-political sciences and computer science.

## TECHNICAL SKILLS

I believe technical skills can be picked up quickly if one has a good understanding of the basic underlying concepts. Here's a list of what I have been exposed to so far.

- **Programming Languages:** Java, Kotlin, Scala, Clojure, Python, C#. A bit of Rust as well.
- **RDBMS:** MySQL, Microsoft SQL Server, PostgreSQL
- **NoSQL Databases:** Amazon Neptune, Amazon DynamoDB, Redis, Neo4j, MongoDB
- **Search Engines:** Elasticsearch and the stack it comes with for enhanced observability and insights

- **Message Brokers and Streaming Platforms:** Amazon Kinesis, Apache Kafka, Kafka Connect, Avro and Schema registry
- **Data Science Libraries:** Scikit-Learn, numpy, pandas, NLTK, graph-tool, networkx.
- **Big Data & ETL:** Hadoop, Databricks and Spark, Apache Airflow, Apache NiFi
- **Infrastructure:** Docker, Kubernetes, Helm, Skaffold, Gitlab CI/CD, Jenkins
- **Cloud:** Different AWS technologies such as EC2, ECS, S3, RDS, CloudFront, Lambda, Step Functions, and the ones mentioned above
- **Others:** Git, Spring Boot, Spring Cloud Stream, Gradle
- **New AI:** RAG, LLM, Vector databases, LangChain, Llamaindex

## How I Keep Fresh

- By passively using X to figure out what has been happening recently.
- By listening to audio books and podcasts. Here's a list of my recent favourites:
  - [Lenny's podcast](#)
  - [Practical AI](#)
  - [Y Combinator](#)