

# Arsalan Siddiqui

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## SUMMARY

- Driven Software Engineer with **15 years** of experience building highly scalable **Full Stack** applications with different tools like **Python, Angular, React, Java** and **TypeScript/JavaScript**. Passionate about **RAG Agentic Workflow** systems. Experienced in developing performant User Interfaces(**UI**) and implementing scalable microservices (SOA)
- Strong **troubleshooting skills**, passionate about **clean code, reusable components**, and delivering performant and maintainable applications in fast paced Agile environments
- Proficient user of **AI** tools like **MS CoPilot** and **Warp** to efficiently develop and maintain software systems
- Implemented Source and Sink **Kafka** connectors for Asynchronous Data Flow. Experienced in integrating different Databases(/RDBMS) like **MySQL, SQL Server** and **Oracle**. Strong command of Structured Query Language (**SQL**) and good understanding of **stored procedures (PL/SQL)**. Also worked on solutions with **NoSQL Databases** like **MongoDB** and **Qdrant** and caching DB like **Redis**
- Contributed three **npmjs open source packages**. Passionate about **Responsive Web Design** and **Component based UI**. Experienced in resolving difficult issues in Non Blocking IO like Node.js and Browser Platform
- Strong team player and experienced in quickly ramping up on different tech stack in new environments

## TECHNICAL SKILLS

**Languages / Tools:** Java(Spring, JAX-RS, JAX-WS, XML, JSON), Angular(TypeScript, JavaScript), React, Amcharts, Python, HTML, CSS, UML Docker, Kubernetes (K8s)

**Database / Platform:** SQL, Postgres, MySQL, MongoDB, GraphQL, Node, Git/GitHub, SVN, AWS, Microsoft Azure

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer | Teladoc Inc, Remote

Feb 2022 – Present

- Worked on RAG Agentic System to ingest pdf documents and query using a light weight UI in TypeScript. The backend was in the Python **FAST API**. Used llama\_index for chunking pdf for ingestion
- Worked on improving performance of an existing **Angular** application, updated components following the Container and Presentation component patterns and updated **change detection strategies**. Also used **signals** for granular change detection. This improved 20% performance in the UI.
- Created **reusable components** in Angular component library that can be used by multiple applications. Also created a reusable custom **attribute directive** and **custom pipes**.
- Worked on POC of **Python** multi agent service(**AI**) to improve efficiency in patient management system and save doctors time during patient visit. Integrated with interactive chatbot UI in **React.js**
- Design and Implemented **Java PII Logging** custom library to mask PII fields info via configuration using **regex**. It is being used in **Kafka** Connectors as a library and it ensured HIPA Compliance and Information Security
- Created and deployed Kafka source/sink connectors for Async data integration that consumed/published 1500+ messages per day. Contributed in CI/CD using **Python** and Jenkins. Containerized applications using Docker, managed deployments using Helm Charts, **Kubernetes** and **AWS**
- Technology Used: Java(Spring), Python, SQLAlchemy, Kafka, Angular, OAuth2, React.js, TypeScript, JavaScript (ES6+),, Jenkins, Docker, Kubernetes(K8), Helm, AWS, Salesforce LWC, Splunk, JSON, XML, git, jira

### Senior Software Engineer | Philips Respronics, Pittsburgh, PA

Sep 2015 – Feb 2022

- Worked on an FDA-regulated healthcare platform consisting of **Angular** frontend and backend of 30+ **Java Spring Boot** microservices. Used **Cloud Foundry** (cloud-native AWS) YAML for deployment with with TeamCity **CI/CD**
- Created a **Python** microservice that hosts a trained **R language AI model** to do some predictions about patients future health conditions based on their latest device data. It runs on intervals and pulls the latest data from the patient datamart and feeds it to the model. It publishes results from the model on a topic in a Rabbit Message Queue. It also has a RESTful interface to pull the latest results.

- POC and implemented a backend **Rules Engine** based on **BPMN** flow in **Java Camunda** Microservice for Product Owners that helped implement **rule based decisions** on **asynchronous data events** from **Message Queues**(Rabbit MQ).
- Implemented processing and handling of Therapy Data in **Java Spring** microservice. Also worked on creating endpoints on gateway microservice (Backend for Frontend pattern)
- Migrated legacy AngularJS components to **Angular**, building reusable UI modules in TypeScript used by 1000+ users. Application deployed using Cloud Foundry yml in AWS cloud.
- POC and implemented an end-to-end UI test automation framework integrated with JIRA/XRay using **Protractor**, **Karma** and **Selenium**
- Published 3 open source npm packages helping in tests reporting and artifact uploads (Protractor JUnit Plugin, Karma JUnit Reporter, dir-uploader)
- Technology Used: Angular, AngularJS, TypeScript, JavaScript, Selenium, Java, Spring Boot, Node, MongoDB, Postgres, GraphQL, Kafka, Jenkins, GitHub Actions, Docker, AWS

#### **Consultant Full-Stack Software Engineer | TCS Inc. (client Rogers Communications), Toronto Area Oct 2013 – Aug 2015**

- Worked on Fido.ca web application in **JSP**, **Java**(Spring 4) and **AngularJS**. Lead feature enhancement projects with offshore dev support
- Lead project of adding **SemaFone** third party iframe to entire application for **credit card processing** and **tokenizing** in multiple user interaction flows. Also implemented Fido Device Financing Feature in Java that allow business to configure device financing for phones
- Converted current layout of Fido.ca to a **Responsive Layout** using **Bootstrap** framework and Media Query to handle users from different devices like tablets and cell phones
- Designed and Implemented features using **Spring 4** framework and **RESTful** webservices.
- Technology Used: AngularJS, Java, Play framework, Spring, REST, Portlets, Apache CXF, SOAP webservices, Hibernate(ORM), SQL Server, JSON, Aqua Logic Service Bus (ALSB) , SVN, Jenkins

#### **(Full-Stack) Software Engineer | Expedia Inc., Montreal, Canada**

**Feb 2011 – Oct 2013**

Implemented features in a highly transactional Java multi thread web service, handled **3000TPS**. Rewrote the Java cache loader using **Gemfire Cache** and **multi threading** to improve response time

#### **Developer / Technical Specialist I | AAA Clud Inc., Orlando Area, FL**

**Aug 2009 – Feb 2011**

Implemented features in **JSP** and **JSF**(Java Server Faces) with **CORBA** Architecture(XML) as a facade for backend web services. Worked on CORBA IDL modifications and updating Business tier logic accordingly and subsequent functions all the way **JDBC** calls for stored procedures.

#### **EDUCATION**

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**Umea University**

**Umea, Sweden**

**Masters. in Computer Science**

**Master Thesis:** 2D LADAR based localization – a search for best applicable methodology, *IFOR Research Group, Umeå University*